

VALENTINA BORREMANS

REFERENCE GUIDE
TO CONVIVIAL TOOLS

DRAFT 1978

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TABLE OF CONTENTS

	pages:
Preface by Ivan Illich	1
Introduction	4
Section A. Selection under conventional headings by character of publication:	
1. Bibliographic Guide to the Whole Field	11
2. Bibliographies in Comprehensive Handbooks ..	12
3. Guides to Alternative Publishers and to their Stock	12
4. Guides to Periodical Literature	13
5. Reviews	14
6. Libraries	14
7. Sources in Tradition	15
Section B. Alphabetical list by first author	16
Section C. Alphabetical list of periodicals	229
Section D. Alphabetical list of addresses for small, special or unusual sources	265
Section E. Subject index including the names of co-authors, agencies and some titles	293

PREFACE

Ivan Illich

At first glance this is just one more book on reference books. It lists and describes eight hundred and fifty eight volumes and articles that, in their turn, list books on alternatives to industrial society or people who write on that subject. The seven essays at the head of the list are like road-signs placed by the author, by which the newcomer may recognize a few comprehensive handbooks, catalogues, bibliographies or addressbooks to start on his search. The index, at the end, cross-references hundreds of subject-matters. Altogether, this looks like a book to be used in a library - but the library, where it could be used, does not yet exist: I recently checked in the largest technical libraries of Boston, Berlin, Oxford and Washington, and nowhere could I find even half of the reference-tools which are annotated in this volume. This is the champion list of un-listed reference tools: a bibliographic claim to a new kind of territory. Valentina Borremans has discovered that a kind of literature that librarians tend to neglect and that so far no library has collected, possesses internal coherence through reference tools that are often not recognized as such by the professional librarian. This recognition could allow a new discipline to come into being. I therefore believe that the publication of this book will serve three distinct purposes: it will guide researchers to documents that will surprise them; it will help librarians to incorporate a new kind of "grey" literature into their traditional collections and it will convince the general public that research on alternatives to a commodity-intensive industrial society has come of age. In fact, this kind of research might be already the most imaginative, widespread and enjoyable form of competent, multidisciplinary and participatory exploration practiced.

How Valentina Borremans came to prepare this guide is probably best understood by reviewing her career. In 1961 she came from France to Mexico to direct a small research library on Social Change in Latin America. Starting with a few filing cabinets she built up four major

research collections that are now a permanent part of the Colegio de México. By 1964 Borremans and a group of her collaborators incorporated this library as Centro Intercultural de Documentación, CIDOC, in Cuernavaca. During the next 12 years about 18,000 people came to read and to study at the Center which Borremans directed. More than 300 titles were published by CIDOC. CIDOC was meant to be the inverse of a university: a library centered place for advanced learning where courses grew out of self-organized reading, and all readers were equally empowered to organize their own seminars. This did work for almost a decade, but then success undermined the Center's purpose. Increasingly university teachers from foreign countries came to organize their own credit courses. Rather than allow CIDOC to become one more University, in 1976 Valentina Borremans closed the Center that she had founded and directed.

There was no administration at CIDOC that could impose a curriculum or theme: only the library, the money-making school for spoken Spanish and the housekeeping-activities were "managed". By statute any participant could organize the seminar of his fancy by describing it in the periodic catalogue or on the bulletin board. Yet, during the late sixties one theme came to dominate conversation: the disciplined and well documented study of possible alternatives to a society dominated by the industrial mode of production. Many of the authors listed in this guide are people who - a decade ago - had met at CIDOC and contributed their suggestions to the librarian. I myself conducted all my seminars at CIDOC and felt its most privileged user. Soon CIDOC gained the reputation of a unique depository of otherwise unobtainable documentation. Several years before the "Club of Rome" or the "Energy Crisis", before "Green Politics" or "Structural Unemployment" had turned into public issues, Valentina Borremans provided us at CIDOC with documentation on these still nameless subjects. If I rightly understand her present intention, this Reference Guide to Convivial Tools is a plea that librarians elsewhere provide access to the kind of materials that many of her guests enjoyed so intensely at CIDOC.

The present under-equipment of libraries for research on radical alternatives to a commodity-intensive society needs to be explained. It

would be silly to ascribe it to a conspiracy amongst librarians. Librarians always find money for reference books, no matter how odd these are. No doubt, self-restraint is the secret of the competent acquisition librarian, even of him who is in charge of the largest collection. But money-pinching could under no circumstances explain an identical lacuna in the reference section of the Bodleian in Oxford, the MIT System in Cambridge, the ERDA Library (the US Energy Research and Development Agency) in Washington and the Technische Hochschule in Berlin. Yet none of these could produce the two-volume annotated bibliography on windmills I was looking for. To ascribe this lack to a prejudice against Don Quixote would be absurd. Of course it is difficult to order a book which the author himself publishes for a network of friends, a book for which he expects a donation rather than payment after invoice, a book that is difficult to shelve, but these are obstacles that would never stop a good library from acquiring a reference tool on fiction, politics, poetry, pornography or the drug culture. Why then are the reference tools listed by Borremans so rare? This has certainly nothing to do with squeamishness, with racial prejudice or with sexism. It does have something to do with the unusual process by which many of these items are published and distributed and with the suddenness with which they have appeared in the seventies. But the absence of these research tools must be primarily due to the fact that no classification system provides quite the right number. The logical coherence of the new literature has to be discovered before the reference paths into the new field can be assembled. In her introduction Borremans shows how this might be done.

INTRODUCTION

This is a draft for an International Library Guide to a field of study which is now emerging as a distinct subject or discipline and which is based on contributions from a wide variety of traditional fields.

The new area of investigation focuses on the evidence that "tools", in their technical development, occasionally reach thresholds which are socially critical. When a tool acquires such a critical character, it inevitably affects the culture, social structure and distribution of political power of the community which uses it.

The new discipline first identifies those tools that make an industrial market-intensive society inevitable. That is, a society in which the needs of people are increasingly correlates of goods and services designed and prescribed for them by dominant professions.

Secondly, the discipline explores old, new and possible tools which enable people and primary groups to shape their needs in the activity by which these needs are also satisfied. Such tools are overwhelmingly those which enhance the generation of use-values rather than the production of commodities.

Thirdly, this new discipline deals with the cultural, social and political conditions under which use-value oriented modern tools can and will be widely used, and with the renewal of ethics, politics and aesthetics which is made possible by the democratically decided limitation of the industrial mode of production.

This area of investigation is not confined to one new society in particular, but encompasses the prevalence of convivial over industrial tools in any modern society, and deals with the wide range of options in life style, governance and economics which would be fostered by this prevalence.

The vision of these new possibilities requires the recognition that sci-

entific discoveries can be used in at least two forms. The first leads to specialization of functions, institutionalization of values, centralization of power, and turns people into accessories of bureaucracies or machines. The second enlarges the range of each person's competence, control and initiative, limited only by other individuals' claims to an equal range of power and freedom.

The term "tool" is used here with the meaning given it by Ivan Illich in Tools for Conviviality.

"I use the term "tool" broadly enough to include not only simple hardware such as drills, pots, syringes, brooms, building elements, or motors, and not just large machines like cars or power stations; I also include among tools productive institutions such as factories that produce tangible commodities like corn flakes or electric current, and productive systems for intangible commodities such as those which produce "education", "health", "knowledge", or "decisions". I use this term because it allows me to subsume into one category all rationally designed devices, be they artifacts or rules, codes or operators, and to distinguish all these planned and engineered instrumentalities from other things such as basic food or implements, which in a given culture are not deemed to be subject to rationalization. School curricula or marriage laws are no less purposely shaped social devices than road networks."

"Tools are intrinsic to social relationships. An individual relates himself in action to his society through the use of tools that he actively masters, or by which he is passively acted upon. To the degree that he masters his tools, he can invest the world with his meaning; to the degree that he is mastered by his tools, the shape of the tool determines his own self-image. Convivial tools are those which give each person who uses them the greatest opportunity to enrich the environment with the fruits of his vision. Industrial tools deny this possibility to those who use them and they allow their designers to determine the meaning and expectations of others. Most tools today cannot be used in a convivial fashion."

"A convivial society should be designed to allow all its members the most autonomous action by means of tools least controlled by others and use-value oriented. The growth of tools beyond a certain point increases regimentation, dependence, exploitation and impotence and cannot but produce exchange-values."

By publishing this Guide, I intend to "establish" the field of study which deals with convivial tools by providing it with a niche in every respectable library. As a librarian, I believe that the library - today more than ever - is the place where a dissident worldview can first take

shape and consistency. By properly labelling a new kind of perspective and by putting a new kind of material on the shelves, a new social reality can be fostered that will be confirmed even by those who impugn its legitimacy.

But a field needs a name if it has to mature. It would be a mistake to call this new and systematic pursuit of practical wisdom about tools "futurism". The term futurism has only recently found acceptance, but already designates one more academic discipline in which hierarchically organized professionals use prestigious procedures to forecast, plan and make policy about people's needs and the services by which these needs shall both be shaped and satisfied. Convivial research does precisely the inverse: those who pursue it explore new ways and means by which they themselves and the members of their primary communities can satisfy those needs which are shaped and limited in the very same process by which they are satisfied. This approach to renewal and progress is conspicuously absent from the many excellent guides to the literature on futurism. I would rather follow Peter Harper in calling the study of convivial tools "radical technology."

"We wanted to express an ideal of technological organization that was part of a total movement towards a new form of society; but at the same time to assert the belief that technology itself matters, not just who controls it - that, in other words, not only the relations of production, but the means themselves must be changed to permit the achievement of a just, stable and fulfilling society."

"Since this last is a notion that most radicals would not accept, we adopted the word "radical" with some diffidence, reinforced by the fact that most of the material in the book is purely technical and has no overt political content at all. But other explicitly political labels were even more misleading or susceptible to misinterpretation. "Socialist Technology", "Anarchist Technology" or "Utopian Technology" could all have done at a pinch (let no one call us sectarian!) but the terms are so muddled that the relatively anodyne "Radical Technology" was wheeled in faute de mieux." (*Radical Technology*, ed. by Godfrey BOYLE and Peter HARPER, New York: Pantheon Books, 1976).

This is definitely not a guide for the study of "Alternative Technology" in the broad sense. Feeding high voltage networks from renewable geothermal sources, ocean waves or the burning of alcohol - defensible under some possible set of assumptions - is clearly an alternative to coal, fis-

sion or fusion. But the fact that such production may be less destructive of the physical milieu does not necessarily mean that it is also a convivial tool. Therefore, references to oil, coal or "alternative" feeders of high voltage networks are listed as aids to clarify the differences between these and specifically radical technologies.

This Guide must also be distinguished from an access tool to "Soft Technologies". The ecological movement has enormously contributed to the critical atmosphere that has made radical technology possible and acceptable. Most of the research, both critical and creative, which has resulted from the new emphasis on environmental studies, constitutes a precious source for the radical technologist. In many cases, the best test for the long-range ecological feasibility of a technique is its acceptability according to the criteria of soft technology. The emphasis of this Guide, however, is not ecological. The radical technologist, in the design and selection of tools, primarily utilizes criteria which ensure the ability of individuals and small groups to generate use-values. Secondly, environmental requirements are considered. In many ecological projects, priorities are reversed: the preservation of "nature" comes first, and specifically human needs are either ignored or slighted.

In a similar manner, reference material on "Soft Bureaucracies" and their organizational tools will help the radical technologist to define and clarify his research in a new dimension. But this is not a guide to radical professionalism. No doubt, adult education is an "alternative" to schooling; no doubt, the participation of the pupil on the board of his "college without walls" renders his educational management sweeter and more persuasive; no doubt, public television has pioneered some techniques which can be used in convivial frameworks. But the radical inverse of schools is not some new form of education; rather, a structure of tools that fosters more widespread, satisfying and stimulating learning. References to policy alternatives and new techniques in the areas dominated by the great professions of medicine, education, and the administration of law have the same purpose as references to alternative urban sewer systems, insecticides or computers: they help you know thy enemy. This is a guide to Use-Value oriented Convivial Tools - and to their enemies. It is meant primarily as an instrument for the selection of

reference materials for a library and, secondarily, as a research guide. The persons whom I want to assist are of three kinds:

1. From Fiesole in Italy and Arequipa in Peru, Puna in Maharashtra and Corte in Corsica, I have been asked to help in the creation of reference collections for the study of radical technology. This Guide, then, has been prepared for the librarian who must build up a specialized research tool far from any large and well rounded general library. My emphasis is on those materials which allow the researcher to identify his needs, so that the librarian can then order these items, thereby enlarging the library's collection in the special fields actually used by researchers.

In two decades of experience as a librarian in Latin America and, with some experience in Africa, I have had to work with people who wanted to do research outside of the capital cities which monopolize documentation. I have come to the conviction that the one way to build up a good library in such conditions is this: let the librarian splurge on access or reference materials, and only later stock his shelves with what the few researchers who regularly use the library request. I am convinced that a thousand dollars for the acquisition of reference materials will enable a part-time librarian in most countries of the world to provide a first rate access and research tool for the study of radical technology.

2. The lack of research facilities in the libraries of poor countries is notorious. But even more scandalous is the absence of materials covered by this Guide in the university libraries of the rich. Therefore, the Guide is designed to remedy this lacuna. The well equipped librarian can use the Guide to expand his reference section on both radical technology and in the fields which relate to it.

This professional librarian might be surprised to find some of the most basic tools of his trade in the Guide. But it must be remembered that the non-professionally trained librarian in a Colombian town, asked by three schoolmasters

to use one fourth of each man's salary to create their research tool, will be delighted to discover a general guide to reference books in both English and in Spanish.

3. There is a third kind of user whom I have in mind: the individual researcher who has no access to any significant library at all. He might be a journalist in the Northeast of Brazil who wants to argue his case against a new power station, or the union member in Italy seeking a list of others who have organized worker control over jobs in a plastics plant. For the sake of these readers, I have made many exceptions to my general rule to include second-level reference tools, guides to literature, to organized activities and to sources of documentation, and some other materials significant enough to retain their value as historical documents even though they have been replaced by more comprehensive new books. For the sake of the individual and isolated researcher, I have listed also a few more ephemeral items.

The dominance of English in this bibliography highlights the urgency of its international use. Today the need for "Radical Technology" is recognized in the English-speaking world, from India to Canada, more than elsewhere - with the possible exception of China. This is partly due to a political and historical tradition, and partly to the resources for systematic analysis and publication of experiments in the Anglo-Saxon countries. Thus English has become both the "uniquak" of corporate and professional multinationals extending their global reach and the "koiné" by which the housewife in Lima can establish contact with a women's health collective of London or Boston.

Today, it is abundantly clear that the Peruvian or Dahomelian who does not acquire a reading knowledge of English is condemned to be the victim of translators. He will have to depend on what his tutors, large corporations or governments decide to translate into Spanish, French or Quechua. The multinational industrial system defends its global power by this monopoly on access to the written word. This Guide to reference tools can help people all over the world raid the centers where research on radical technology takes place, research published overwhelmingly in English.

For this reason, I include a section on language learning. The vernacular language is also the first of radical convivial tools - and conviviality means a return to multiple vernacular competence.

Most of the key-items to which I would like to lead the user of this guide are of very recent vintage: they are being constantly criticized, improved or superseded - and the information on this lively process cannot be obtained from materials now commonly found in libraries. My guide is of limited usefulness unless it is complemented with a few other tools among which I would give priority to the following:

- 1) The Rainbook complemented with Rain magazine;
- 2) Peter Harper's bibliography in Radical Technology, edited by Boyle and Harper.
- 3) The Appropriate Technology Sourcebook, edited by Darrow and Pam;
- 4) From Radical Left to Extreme Right, vols 2 and 3, by Theodore Jurgens Spahn and Janet Peterson Spahn.
- 5) Workbook magazine.
- 6) Alternative Sources of Energy magazine.

The arrangement of my guide to reference tools reflects the specific purpose for which I have destined it.

In Section A I list under 7 conventional headings a selection of 90 easy to use and comprehensive - mostly annotated - guides to research. This 11% of the total alphabetical list given in Section B will very frequently be sufficient to answer reference questions. Section B is an alphabetical list of 858 entries. I list entries under the personal name of the first given author or editor, rather than under the name of the impersonal agency, publisher or collective. All co-authors as well as institutes, sponsors and publishers (unless these are major commercial firms) are listed in the index. Section C lists periodicals. Section D provides addresses of small, special or unusual sources of the literature mentioned. Section E is a name and subject index which includes some titles. The subjects are listed as the authors would define them. Thus Section E can be used not only as index but also as glossary to the new field and as "Who's Who".

A. SELECTION UNDER CONVENTIONAL HEADINGS
BY CHARACTER OF PUBLICATION.

1. BIBLIOGRAPHIC GUIDES TO THE WHOLE FIELD.

In English there are now several guides available which concentrate on the survey of recent literature on the entire field. These should be usually consulted first for an orientation to any specific subject. The Rainbook updated ten times a year by Rain magazine is comprehensive and non-sectarian. For each item a short description and evaluation is given, with precise information how to order it. The frankly de-centralist monthly Workbook is a useful, more critical complement with excellent indexes to each issue. HARPER's dense comments on the political relevance of three decades of literature has served me as a guide in compiling my book. He can be complemented and supplemented by MARIEN, Societal Directions and Alternatives, only on policy issues, updated by 7 issues of the bi-monthly Public Policy Book Forecast which is published monthly as of January 1979 as Future Report. The excellent Appropriate Technology Sourcebook by DARROW and PAM is the quickest way to the literature on "how to" problems. The two volumes, From Radical Left to Extreme Right, bibliographies of books and of periodicals, compiled by SPAHN, are fundamental. There are no comparable guides to the literature in any language but English. Therefore a search for literature in French will have to start with the Répertoire québécois des outils planétaires, by ALLEGRE et al., Manuel de la vie pauvre, by Les Enfants d'Aquarius, and the Catalogue des Ressources; and in German with Umdenken-Umschwenken edited by the Arbeitsgemeinschaft Umwelt. Starting in July 1978 the magazine Technologie und Politik publishes as a regular feature its own selection from the manuscript of Reference Guide to Convivial Tools, comp. by BORREMANS, interlaced with further recent German publications.

2. BIBLIOGRAPHIES IN COMPREHENSIVE HANDBOOKS.

Comprehensive handbooks are those anthologies, repertories and guides which provide the reader with a survey of ideas and praxis of decentralized living. The handbook includes, under one cover, issues as distinct as shelter and printing, health-care and waste treatment. The following handbooks are each written for a different kind of reader and with each chapter provide guidance to further reading in view of this audience. Radical Technology, ed. by BOYLE and HARPER, insists that new lifestyles are mandatory for the sake of justice; Whole Earth Catalog and Epilog are like a supermarket combined with an antique shop and museum for Americans; Progress as if Survival Mattered, ed. by NASH, is a reasoned guide to the programme of the Friends of the Earth; Répertoire québécois des outils planétaires, ed. by ALLEGRE et al., is a practical bilingual guide to alternative living within a rich society; 99 Ways to a Simple Lifestyle, ed. by TAYLOR, same as former item with an excellent and ample bibliography. Survival Scrapbooks, several volumes, some edited by SZCSELKUN, are an esthetic pleasure with careful selections of the most serious literature which the layman can easily master. The Handbook on Appropriate Technology, ed. by the Canadian Hunger Foundation, is a model "how-to-do-it" manual, designed primarily for poor countries with international scope in its references on the selection, production and use of simple tools. It exists also in Spanish.

A different handbook is the critical guide to alternative praxis in a given country or area: it lists much less literature, but very frequently provides guidance to groups and authors who are presently engaged in reporting on their experience. Outstanding and needed in every library are: Alternative London, Alternative England and Wales, Alternative Scotland, by SAUNDERS; Manuel de la vie pauvre, by Les Enfants d'Aquarius; Umdenken-Umschwenken, by Arbeitsgemeinschaft Umwelt, Italia Alternativa, by QUATTROCHI. A magazine done with simplicity and competence, for regional sources of information, is Whole Earth, produced in Brighton, Sussex.

3. GUIDES TO ALTERNATIVE PUBLISHERS AND TO THEIR STOCK.

A fair amount of materials relating to radical technology is published

by each country's established publishing firms, by established institutions of learning or research-bureaus attached to official agencies. The major guides to reference books are WALFORD, Guide to Reference Material, vol.1 Science and Technology; the American Library Association's Guide to Reference Books, comp. by WINCHEL (1967) and by SHEEHY (1976); SABOR, Manual de fuentes de información; HOFFMAN, Readers' Adviser; MALCLÈS, vol.3, Sciences exactes et techniques.

A few publishers and book-cooperatives specialize in adequate or radical technology: COMPENDIUM Bookshop in London, for overall coverage; History of Ecology, an annotated brochure by ARNO Press; EARS, Environmental Action Reprint Service Catalogues, for solar and alternative energy; RODALE's Press sales catalogue on alternatives; the two Yes! bookshop guides, by POPENOE, for health and parapsychology.

Material of interest will be found in the lists of many non-profit, non-commercial and non-institutional presses, and mini-presses, which tend to specialize either in radical politics or in literature. For access to these see: Alternatives in Print 1977-78; Small Press Record of Books in Print edited by FULTON and FERBER and the monthly Small Press Review; Little Press Books in Print published by the Association of Little Presses, London; See also: Bücher die man sonst nicht findet: Katalog der Minipressen, ed. by KÄSMAYER and Linke Verlage informieren: Verzeichnis linker lieferbarer Bücher, published by Maulwurf Buchvertrieb, Berlin. For French publications see the catalogues of Librairie Parallèles, Librairie Alternative and Librairie Entente (addresses in section D.).

4. GUIDES TO PERIODICAL LITERATURE.

What cannot be found through ULRICH's International Periodicals Directory and its companion volume Irregular Serials and Annuals, ought to be sought through: Directory of Small Magazine/Press Editors and Publishers and International Directory of Little Magazines and Small Press, both by FULTON; From Radical Left to Extreme Right: A Bibliography of Current Periodicals, by SPAHN, a guide to the makeup, sponsors and content of periodicals, that covers both entries which can of course be

found in ULRICH as well as items which nobody would look for there; Sunspark Guide to Alternative Periodicals, comp. by CARNAHAN; Alternative Press in Canada, Serials, from 1960 until cca 1972, compiled by WOODSWORTH; New Periodicals Index, ed. by Mediaworks; Alternative Press Syndicate Directory.

5. REVIEWS.

For critical reviews of current publications, see a.o. the following major journals: CoEvolution Quarterly, ed. S. Brand, Sausalito, California; Alternatives, Peterborough, Ontario; Manas, ed. H. Geiger, Los Angeles, California; Resurgence, ed. S. Kumar, Wales; North Country Anvil, ed. J. and K. Miller, Millville, Minnesota; The Ecologist and The Ecologist Quarterly, ed. E. Goldsmith, Wadebridge, Cornwall; The New Ecologist, ed. N. Hildyard and R. Lumley-Smith, Wadebridge, Cornwall; Not Man Apart, Friends of the Earth, San Francisco, California; Undercurrents, ed. Lyn Simonon, London; Natural Energy, ed. R. Clark, Surbiton, Surrey; Technologie und Politik, ed. F. Duve, Reinbek-bei-Hamburg; Ecodevelopment News, ed. I. Sachs, Paris; Le Sauvage (quarterly), ed. A. Hervé, Paris.

6. LIBRARIES.

For information on alternative libraries, information networks, and joint catalogues of libraries within the area consult: Benedict Network; Alternative Sources of Energy Lending Library; Alternative Library Lit, by BERMAN; Interstate Library Planning Group Directory; Revolting Librarians, ed. by WEST et al.; State and Local Environmental Libraries, a joint publication of U.S. Environmental Protection Agency and National Oceanic Atmospheric Administration; Undergrounds, a Union List of alternative periodicals in libraries of the U.S. and Canada, comp. by DANKY; and the Union List of Little Magazine, ed. by the Indiana University Library.

7. SOURCES IN TRADITION.

Each traditional culture represents at each particular point in time a unique style of coping with reality, and this style is articulated in the tools used. Contemporaries can barely imagine the variety of distinct tools illustrated on the 2,885 plates of the Encyclopédie of Diderot et d'Alembert. Thus the history of technology can offer a contribution of millennial experience to research on modern but still use-value oriented tools. On the social consequences of contact between traditional peasant or high culture with industrial civilization see: BALANDIER, Conséquences sociales du progrès technique dans les pays sous-développés and TREANTON and REYNAUD, Industrial Sociology 1951-1962, both annotated bibliographies. The study of traditional tools which can be improved or changed by new materials, concepts or application, is one of the most important sources of radical technology. First of all FERGUSON, Bibliography of the History of Technology, but also FORBES, Man the Maker, provide a critical guide to the field, with much greater detail than the Guide to Historical Literature by the American Historical Association, and less exhaustive than ISIS. One of the great histories of technology will probably be accessible for consultation: SINGER et al. A History of Technology; FORBES, Studies in Ancient Technology or DAUMAS, Histoire générale des techniques. For extra-European high cultures, NEEDHAM, Science and Civilization in China, will remain for a long time the great model. See also: WULFF, The Traditional Craft of Persia; NASR, Science and Civilization in Islam; and for special periods: WHITE, Medieval Technology and Social Change; ARMYTAGE, A Social History of Engineering.

E. SUBJECT INDEX INCLUDING THE NAMES OF
CO-AUTHORS, AGENCIES AND SOME TITLES.

Above-Ground Use of Grey Water 812
Academy of Sciences, USSR 1
Acorn 1
Adams 145
Adobe,
 building 46, 289, 532, 843
 roofs/domes 222, 584
The Adobe News 2
Advanced Solar Energy Technology
 Newsletter 3
Adverse Reaction Titles 4
L'Affranchi 465, 5
Africa 80, 235
Agence Presse Ecologie 43
Agence Presse-Environnement 110
Agency for International Development, AID 6, 7, 400, 843
Agribusiness 528
Agribusiness Accountability
 Projects 717
Agriculture,
 biological 285, 427
 biological, bibl. 181
 energetic economics 161
 energy efficiency use 375, 528
 energy-intensive 310

A

energy resources 376, 385, 386
 humid tropics 90, 651
 implements 121
 neighbourhood systems 306
 radical alternative 528
 regional networks 575
 sewage uses 462
 urban 528, 598
 waste heat use 644
 waste management 431
Agriculture, Africa, bibl. 80, 235
Agriculture and Biology: Selected
 Reference Sources 653
Agriculture and food, bibl. 563
Agriculture, Asia, bibl. 80
Agriculture reference sources 653
AID 6, 7, 400, 843
Air pollution, bibl. 8
Air Programs Office, USA 8
Airships 77
Akeroyd, Richard 86
Alcohol stills 529
Alfalfa 6
Algae 48, 99, 150

Alternativ Katalog 44, 246
Alternative Agriculture Resources Project 285
Alternative America 320, 124
Alternative Energy Sources Newsletter 7, 91
Alternative England and Wales 681
Alternative London 680
Alternative Media 8
 Alternative press, catalogue 26
 directories 11, 12, 22, 155, 223, 313, 314, 315, 481
 directories, Canada 845
 directories, Germany 439, 478, 688
 France 88
 index 21, 526, 670
 librarians' movement 92
 libraries' network 11, 12, 86, 604
 U.K. 56
 union lists 223, 787
Alternative Press Centre 9, 14
Alternative Press Collection 86
Alternative Press in Canada 845
Alternative Press Index: An Index to Alternative and Radical Publications 9
Alternative Press Syndicate 22, 8, 124
Alternative Scotland 851
Alternative Society Newsletter 10
Alternative Sources of Energy 264, 12
Alternative Sources of Energy, bibl. 786
 Alternative technology, anthology 240, 382
 directory 368, 410, 731
Alternatives 12
Alternatives in Contemporary Issues Collection 86
Alternatives: Perspectives on Society and Environment 13
Alternatives Press Index 14
 Amarshi, A. 80
 American Association for the Advancement of Science 227
The American Energy Consumer 572
American Historical Review 830
 American Library Association 705, 807, 808, 837, 145
American Meteorological Society Bulletin 384
 294

American Petroleum Institute 563
American Reference Books Annual 854
American Scientist 376
Amis de la Terre, France 18
 Anaerobic fermentation 346
 bibl. 302, 702
 Anarchism 110, 810, 448, 451
 Anarchist collectives, Spain 255
Anarchy in Action 810
Annuaire héliotechnique 356
The Anvil 100
Applied Ecology: Abstract 15
Appropriate Technology 16
 Appropriate technology, anthology 240, 382
 bibl. 76, 137, 156, 239, 303, 319, 804
 developing countries 430
 developing countries, bibl. 424
 directory 368, 410
 sourcebook 226, 676
Appropriate Technology Sourcebook 226
 Aquaculture 66, 90, 394
 Aquaculture, waste heat use 644
 Aquatic weeds 4
 Archeology of technology 248
 Archer, Gerry 46
 Architectural Association 761, 762, 763, 786
Architectural Design 17
Architecture without Architects 660
 Arkansas Community Organizations for Reform Now 790
Arno Press 134, 267
 Art terms and techniques, dict. 522
 Asia 80
 Association Européenne d'Agriculture et d'Hygiène biologiques 218
 Associationnists' research 524, 627
 ASTRA, India 636
 Australia 532, 125, 144
 Austria 42, 43, 44, 45, 246, 751
 Autogene training 458

B

Baer, Steve 240
 Baldwin, Roger 450
La Baleine 18
 Bamboo 493
 Bank 74, 100
 Barefoot doctors 67
 Barefoot doctors, bibl. 13
 Barnes, Peter 528
 Barron, Steve 680
The Basic Dictionary of Science
 349
 Beard, Sherry 820
 Beaudry, Ann 659
 Beekeeping 285
 Belair, Michel 18
 Bellamy, Edward 545, 648
 Bender, Tom 239, 240
 Benedict Network 11, 12, 86,
 604, 29
 Benedict, Russel G. 12, 86
 Bennett, Hal 674
 Berdyaev, Nicholas 538
 Berger, Brigitte 89
 Bergstrom, Len V. 654
 Berry, Wendell 528, 798
 Bestor, Arthur 815
Beyond Technics: Humanistic
Interactions with Technology
 536
Bibliographie gastronomique 802
 Bibliographies,
 agriculture 161, 181
 agriculture and food 563
 agriculture Africa 235
 agriculture Asia/Africa 80
 air pollution 8
 anaerobic fermentation 302, 702
 appropriate technology 76, 137,
 156, 239, 303, 804
 appropriate technology, develop.
 countr. 424
 bibliographies 210
 bicycles 96, 97, 331, 489
 bioconversion 561
 building alternatives 47
 building technology 563
 China, health 13, 296
 China, industry 318
 citizen and science 454
 citizen groups in politics 398
 communication networks 818
 communities 200, 576
 community/communication 818
 decentralism 492

Bibliographies (cont.)
 decentralized energy
 systems 215
 development assistance and
 economics 6
 developmental change 735
 dictionaries 411
 disaster technology 510
 do-it-yourself books 579, 718
 drugs 10, 135
 dyeing and textile printing 463
 earth sciences 844
 ecology 142, 167, 172, 372,
 677, 710
 ecology, France 534
 economics, intermediate tech-
 nology 429
 education 591, 593, 736
 education, Canada 746
 education, Germany 683
 educational policy-making 512
 electric power industry 282
 endangered plant species 483
 energy 48, 176, 215, 254, 280,
 281, 300, 301, 473, 474, 529,
 556, 770, 800, 804
 energy education resources 274,
 820
 energy efficiency in food
 systems 617
 energy/environment 273, 811
 energy, Ontario 628
 energy policy administration 20
 energy politics 254
Energy Primer 529
 energy recovery 558
 energy sources 50, 176, 264,
 399, 529, 768, 786
 energy systems 556
 environment 104, 273, 365, 372,
 475, 563, 677, 710, 781, 817,
 840
 environment, France 534
 environment, Papua New
 Guinea 69
 environmental architecture 371
 environmental organizations 781
 environmental studies 267, 488
 ethics of the professions 347
 everyday problems 348
 flour technology 241
 food 6, 755
 fuel economy 27
 futurism 206, 332

Bibliographies (cont.)

gastronomy 802
groundwater resources 797
growth opposition 824
health care, China 13, 296, 794
health care auxiliaries 14, 236, 270, 330
health care planning 127, 789
health policy 517
health profession 154
historical literature 29
history of ecology 267
history of human settlement 335
history of science 420, 570, 571, 643, 679, 831
history of science and civilization 678
history of science and technology 662, 663
history of social movements 393
history of technology 243, 290, 345, 640, 643
holistic health 626
housing/environment 817
horse-drawn transportation 645
how-to-do-it-books 390
human ecology 434
human settlement 335
humanities and technology 536
hydrogen power 556, 596
inner development 625
intermediate technology 57
journey to work 822
lake and river pollution 713
land reform 717
land use planning 387
language dictionaries 184, 411, 809
language grammars 809
language learning 71, 160, 164, 166, 184, 295, 323
learning/schooling 592
library and information sciences 563
limits to medicine 404
liquefied natural gas 649
low-cost housing 716, 766, 768
man and the environment 840
marketing/marketplaces 547
mass media and Marxism 414
mathematics and physics 607
medicine 36, 102, 374, 614
methane 48, 302, 702
military policy 433
modernization 735

Bibliographies (cont.)

nationalism and nat. development 244
natural resources 267
noise 294, 442
non-agricultural choice of technique 429
non-formal education 611, 612
nuclear energy 217
ocean waste disposal 416
odors 8
organic fuels 561
outsiders/marginals 60
peace studies 58
pedestrians 119
pharmaceutical reference literature 610
philosophy of science 678
philosophy of technology 537, 801
philosophy of technology, Germany 243, 380
politics of energy 254
pollution 443
Positive Alternative
Futures 482
product durability economics, 720
professions ethics 347
protest periodicals 729, 730
radical technology 367
recreation/leisure 620
recycling waste 562
rural activities 235
rural health care 14, 236
rural India 245
rural industrialization 480
rural water supply 823
science and technology 497, 733
science and technology policy in Latin America 423
science fiction 35, 70, 214, 363
science library 693
science, technology and society 733
sewage 462
small industries, U.K. 209
small-scale technology 47
social change 138, 304, 447
socially appropriate technology 303
societal directions and alternatives 515
sociology of industrialization 778

- Bibliographies (cont.)
- sociology of modernization 131
 - sociology of progress 62
 - sociology of science 65, 227
 - sociology of technology 328, 425
 - solar 276, 364, 371, 529, 556, 763
 - solar building 32, 140, 242
 - solar cooling 723
 - solar heating 242, 723, 763
 - solar house 9
 - solid waste 562, 792
 - technological service society 514
 - technology and social change 447
 - thermal energy 723
 - transfer of technology 319
 - transportation 231, 822
 - transportation and poverty 638
 - underdeveloped areas 64
 - urban antigrowth 824
 - urban commodity transportation 351
 - urban environment 82
 - urban homesteading 553, 825
 - urban Latin America 205
 - urban planning 126
 - urban social travel 749
 - utopian literature 52, 568, 648, 729, 730, 816
 - village nutrition 686
 - waste 48, 75, 91, 325, 358, 416, 558, 562, 702, 703, 720, 792
 - water distillation 723
 - water plastic piping 849
 - water power 762
 - water resources 797
 - water supply 7, 823
 - water technology 73
 - wellness 49
 - Western energy development 480
 - wind energy conversion 578
 - wind power 47, 114, 141, 264, 384, 768, 800, 838, 841
 - women 145, 189, 211, 266, 268, 654, 665
 - wood waste 91
 - world energy resources 277
 - Bicycle Activists 124
 - Bicycles 704, 832
 - bibl. 96, 97, 489
 - history 158
 - New Zealand 495
 - pedal power 494
 - Bikeways systems 257, 391
 - Bikeway systems, bibl. 331
 - The Big Rock Candy Mountain 19
 - Billboard control 284
 - Bio-bibliographies,
 - Coomaraswamy 479
 - Goodman, Paul 340
 - Kropotkin, Petr 448
 - Mumford, Lewis 549, 550, 573
 - Bioconversion 48, 81, 98, 99, 150, 302, 311, 312
 - Bio-gas 629, 692
 - Bio-gas, bibl. 649
 - Biological agriculture 285, 427
 - Biological control 61, 133, 161, 181, 187, 285, 392, 752, 775
 - Biological Control of Water Pollution 775
 - Biology reference sources 116, 653
 - Biomass 99, 150, 302
 - Biomass, directory 98
 - Biowaste treatment 636
 - BIT 20, 107
 - Bitman 20
 - BlaBla: Blaues Blatt 21
 - Boksenbaum, Howard 192
 - Bole Edison, Elizabeth 715
 - Bonner, John Tyler 771
 - Bookchin, Murray 255, 528
 - Booklegger Magazine 22
 - Books for Inner Development: The Yes! Guide 625
 - Booser, Ronald J. 101
 - "bottle bills" 559
 - Boulding, Kenneth 552
 - Boulter, Steve 81
 - Boyd, J. 197
 - Boyle, Godfrey 367
 - Brace Research Institute 148
 - Brand, Stewart 63, 316, 27
 - Briggs, Carson 135
 - British National Health Service 204
 - Bronx Frontier Development Corporation 719
 - Brower, David R. 554
 - Brown Titus, Edna 788
 - Buddhist Economics 689
 - Bücher die man sonst nicht findet: Katalog der Minipressen 439
 - Die Bürgerinitiativbewegung 523

Building alternatives, bibl. 47
 Building material,
 adobe 46, 222, 289, 532, 583,
 584, 843
 bamboo 493
 palms 585
 Building technology, bibl. 563
 Buildings conversion 261, 265
Bulletin de documentation 23
Bulletin of the Atomic Scien-
tists 470, 471
Bulletin signalétique 24
 Bullington, Darryl C. 91
 Butler, Samuel 144

C

Cadernos de Ecologia e
Sociedade 25
 Cahil, Nancy 142
 California Water Resources
 Center 535
 Callaway, Bob M. 843
Canadian Information Sharing
Service, CISS 26
 Canadian Small Presses and
 Publishers 124
 Canadian Whole Earth Research
 Institute 149
 Canner, Glenn 100
 Cannon, J.S. 381
 Carlsmith, Roger S. 333
 Castleman, Barry I. 309
 Catalogues,
 alternatives, gen. 148
 alternatives in print 26
 communications 725
 consumer information 201
 crafts 183, 209, 622, 623
 energy 171, 283
 energy, Ontario 628
 energy sources 25, 529
 exhibition Energies Libres 163
 German seminars/courses 751
 health care 727
 language learning mat. 413
 periodicals 129
 publishers' 53, 134, 267,
 286, 412
 shelter 149, 754
 soft-technology 63
 solar energy 574, 721
 solar products/professionals 504,
 721

Catalogues (cont.)
 teaching tools 687
 tools, Austria 43, 44, 246
 tools, Canada 18
 tools, China 388
 tools, France 157, 218, 278
 tools, Germany 42, 44, 246
 tools, India 41
 tools, Italia 634
 tools, London 680
 tools, New Zealand 759
 tools, Papua New Guinea 476
 tools, Santa Clara County 676
 tools, Scotland 851
 tools, Switzerland 44, 246
 tools, U.K. 124, 541, 681
 tools, US/internat. 148, 421,
 753, 758, 760, 833, 834
 village technology 661
 woodworking tools 672
 woman's survival 352
 Cement alternative 732
 Center for California Public
 Affairs, 781, 782
 Center for Community Economic
 Development 742, 743
 The Center for Defense informa-
 tion, New York 433
 Center for Growth Alternatives 68
 The Center for Neighborhood
 Technology 23
 Center for Science in the Public
 Interest 103, 108
 Centralizing ecological de-
 vices 316
 Chesman, Andrea 432
 Chevrier, Michel 18
 China,
 health 67
 health, bibl. 13, 296, 794
 history of science and tech-
 nology 567
 industry 233
 industry, bibl. 318
 tools cat. 388
 Cities 109, 125
 Cities, Latin America 205, 667
 Citizen action 147, 151, 357,
 455, 602
 Citizen action, Germany 523
The Citizen and Science
Almanac 454

- Citizen groups, bibl. 398
A Citizen's Handbook on Solar Energy 633
 City walls painting 650
 Civilization and Techniques 548, 551
 Civilization and Technology 691
CLAP Bulletin 107
 Clarke, Robin 39, 826, 91
Clean Water 745
 Cloud, Preston 552
 Cloudburst 1 and 2. 519
 Club of Rome 366
 Coal 216, 692
 Coe, Gigi 240
CoEvolution Quarterly 63, 27
C/O: Journal of Alternative Human Services 28
Collectors' Network News 86, 29
College and Research Libraries 705
College and Universities Libraries 124
 Collins, Joseph 461
Combat Nature 30
Combat Non-Violent 31, 69
Comercio Exterior 423
 Commoner, Barry 161, 178
Communauté. Archives Internationales de Sociologie de la Coopération et du Développement 524, 627
 Communication networks, bibl. 818
 Communications catalog 725
 Communitarian socialism 94
 Communities,
 bibliography 200, 576
 directory, U.K. 250, 765
 directory, USA 180, 287, 320
 history 437
 housing 597, 726
 urban libraries 444
Communities: Journal of Cooperative Living 32
 Community action 288
 Community action,
 bank 74
 city walls painting 650
 deposit legislation, bibl. 559
 electric industry 780
 housing 213, 783
 urban neighbourhoods 383, 446, 544
 Community action, U.K. 576
 Community Action in Europe 33
 Community Action Network Services 263
 Community Levy for Alternative Projects 20
 Community life 341, 343, 344, 437
 Community networks, bibl. 818
Community, Network, Communication, bibl. 818
 Community publication process 613
 Community radio stations 533
 Community services directory 684
 Community technology 194
 Community technology, directory 196
Communus 34
Companion Plants and How to Use Them 618
Compost, Land, Science Utilization: Journal of Waste Recycling 35
Compost Science: Journal of Waste Recycling 36
 Composting 346, 477, 719
 Composting toilets 747, 798
Comprehensive Index to English-Language Little Magazines 670
 COMTEK 196
 Conn, David 720
 Consciousness 89
Conservation Tools and Technology Association 7, 91
 Conserver society 554
Conserver Society News 37
Conserver Society Notes 37
Consumer Information Catalog 201
 Consumer markets 111
Consumer Reports 38
 Consumer's guide to energy 307
 Convivial tools 406
 Cook, Cecil Jr. 78
 Cook, Earl 552
 Cook, James R. 61
 Cooling,
 solar 33, 128, 813
 solar, bibl. 242, 723
 Cooling effects of trees 234
Coomaraswamy 479
 Cooperatives,
 directory 180, 418, 575
 food 203, 297, 528, 652
 Cooperatives, U.K. 169
 Corr, Michael 192
 CCSMEP 188

Cosminsky, Sheila 374
 Costs of urban growth 125
 Cotner, Susan 348
Cottage Economy 179
 Cottage industry 199
 Cotton industry, India 41
 Council of Planning Librarians,
 Exch., bibl. 108, 119, 140,
 200, 210, 242, 300, 301, 325,
 331, 335, 351, 358, 393, 443,
 447, 480, 483, 488, 547, 553,
 638, 677, 703, 749, 817, 818,
 822, 824, 825, 841
 Counter culture 656
 The Country Bizarre 622
Country Bizarre's Country
 Bazaar 623
 Countryside 39
 Courrier de la Baleine 534
 Crafts,
 catalogue 183, 209, 622, 623
 dyeing 397
 dyeing, bibl. 463
 furniture making 220
 ironwork 34
 knifemaking 122
 Persia 853
 pottery, Pakistan 666
 vs. modernization 337
 weaving, Algeria 337
 weaving, India 453
 Crites, Ronald 764
Critical Bibliography of the His-
tory and Philosophy of Science
and of the History of Civiliza-
tion 678
Critical Mass 40
 Cryogenic Data Center 596
 Cuddy, Steven 382
Current Sociology 778
 Cushman, Debbie 811

D

Daedalus 548
 Daneker, Gail 354
 Dang, C.C. 317
 Danky, James 29
 Day, David 421
 Day, Dawn 572
 Decentralized economy 741
 Decentralized energy systems 456,
 484

Decentralized energy systems,
 bibl. 215
 Decentralized food systems 575
 Decentralized society 105, 264,
 341, 343, 344, 401, 435, 516
 Decentralist book list 492, 514
 Dechief, Helene 101
 Delmas, Hervé 218
 Democracy 87
 Democracy and technology 502
 deMoll, Lane 85
Departments of the Environment and
Transport Library Bulletin 41
 Deposit legislation 559
 Dervin, Brenda 444
 Deschooling society 402
Design for the Real World 606
Designing for Survival 541
 De-institutionalized Society 401,
 402
 Dessauer, Friedrich 538
 Developing countries,
 bibl. 6, 64, 76, 104, 127, 153,
 156, 236, 424
 energy 2
 farm mechanization 520
 food 3
 health programmes 127, 253, 236
 health programmes, bibl. 789
 housing 769
 low-cost technology 430
 medical laboratories 441
 self-reliance 168
 small industries 28
 Development assistance,
 bibl. 6, 64, 76, 156
 small industry 28
 Development dependency 153, 168
 Developmental change, bibl. 735
 Dezentrale 44, 246, 21
 Dickinson, H. 197
 Dick-Read, G. 458
 Dictionaries,
 archeology of technology 248
 art terms and techniques 522
 ecology 16, 673
 environment 16, 673
 health care 750
 languages 184, 411, 809
 natural sciences 195
 scientific and technical
 terms 293, 349, 459, 522

Dictionary of Tools Used in the
Woodworking and Allied

Trades 672

Diet for a Small Planet 791

Dimbleby, G.W. 784

Directories,

alternative markets 575

alternative press 11, 12, 22,
155, 223, 313, 314, 315

alternative press, Canada 845

alternative press, Germany 439,
478, 688

alternative technology 368,
410, 731

appropriate technology 368,
410

bio-energy 98

communities/housing 726

communities, U.K. 250, 765

communities, U.S. 180, 287, 320

community technology 196

cooperatives 180, 418, 575

ecological tools' suppliers,
France 218

energy decision-makers 279

energy, France 356

energy organizations U.S. 40,
279, 281, 632

energy sources 566

energy systems 281

environmental education
programs 635

environmental libraries 738

environmental research
centers 836

food organizations/programs 782

futurists 501

geothermal 777

groups/activities 40, 78, 159,
180, 320, 410, 560

groups/activities, Germany 45

human rights organizations and
periodicals 173, 395

Latin American urbanization 667

innovative graduate programs 409

library planning groups 417

nuclear activists 251

periodicals 785

science fiction 54

science, technology and
society 377

self-help projects 790

serials and annuals 419

services for nonprofit
groups 684

Directories (cont.)

social change 576

solar 616, 722

solar heated buildings 739,
757

solar heating organizations 707

solar industry 252

solar organizations 642

video exchange 415

video groups 725

water equipment manufac-
turers 535

wind power equipment 711

World Future Society 847, 848

Directory of Small Magazine/Press

Editors and Publishers 313

Disaster technology, bibl. 510

Dissent Collection 86

Dixon, Cathy 120

Dix-sept foliennnes faciles a

construire 637

Doing It 615, 42, 71

Do-it-yourself books 579

Do-it-yourself books, U.K. 718

Domes 222, 584

The Domestication and Exploitation
of Plants and Animals 784

Donahue, James J. 214

Donde no hay doctor 819

Donohue, Joseph C. 444

Dossiers et Documents du Monde 540

Dowd, Morgan 836

Drugs, bibl. 10, 135

Drugs, handbook 139

Drugs, literature 710

Drum Compost Privies 812

Dujack, Linda 310

Dunglas, Marie 776

Dunlop, Derek 81

Dunlop, John T. 440

Dunlop, Wayne A. 843

Dunn, P.D. 197

Duve, Freimut 154

E

EARS 283

Earth sciences, bibl. 844

Easton, Bob 436

Eccli, Eugene 78, 263

Ecodevelopment News 102

Ecologie/Hebdo 43

The Ecologist 105, 44, 95
The Ecologist Quarterly 45
Ecology 103, 105, 118, 132, 134, 285, 552, 646
 bibl. 142, 167, 172, 372, 677, 710
 bibl. France 534
 building/energy 739
 card catalogue 521
 climatic architecture 594
 community design 344
 energy/economics 580, 582
 health 249
 history 826, 850
 politics, France 112, 113, 540
 waste, bibl. 358
Ecology dictionary 16, 673
Economic and Political Weekly 629
Economic History Review 712
 Economics,
 alternative futures 379
 buildings conversion 261, 265, 557
 community design 344
 decentralized society 741
 employment/energy 216, 275, 354
 energy conservation 557, 564
 energy costs 484
 energy inputs 165, 310
 energetical waste 191
 environment/energy 580, 582
 field crop production 161
 free energy market 539
 health, U.K. 204
 history guide 640
 house insulation 557
 household 143
 intermediate technology, bibl. 429
 journey to work, bibl. 822
 limits 221
 marketplaces/marketing, bibl. 547
 market sizes 743
 neighbourhoods 446
 organic farming 161
 product durability, bibl. 720
 public-owned electricity systems 542
 size effects 426, 445, 689, 740, 741, 742, 743
 solar energy 633
 small industries 426
 stone age culture 671
 technology 175
 urban growth 125, 291

302

Economics (cont.)
 waste 111
 water savings 535
 Economics and technology 530
 Economics as if people mattered 689
 Ecosphere 695
 Edgcomb 145
 Edmondson, William B. 146
 Education,
 adult 228, 353, 590, 774
 adult, bibl. 591, 593
 adult programmes 409, 751
 alternative futures, bibl. 512
 bibl. 736
 bibl. Canada 746
 bibl., Germany 683
 environmental programs 635
 learning exchange 269, 353, 472, 724, 737
 learning/schooling 669
 learning/schooling, bibl. 592
 non-formal, bibl. 611, 612
 seminars catalogue 751
 teaching material, Germany 683
 teaching material cat. 687
 Educational policy-making, bibl. 512
 Ehrlich, Paul 178
 Electric power 192, 282, 359, 360, 577, 692
 Electric power industry, bibl. 282, 780
 Electric public-owned systems 542
The Elements 46
 Ellis, William N. 157
 Ellul, Jacques 538
Emergency Librarian 47
 Employment/Energy 216, 275, 354, 457, 466, 564, 696
 Employment/home business 546
 Employment/tax credits 93
 Employment/technology 95
Enciclopedia Salvat de la Ciencia y de la Tecnología 272
Encyclopedia of Science and Technology 498
 Encyclopedias, history 185
Energies Libres, exhibition, France 163
 Energy 202, 756
 anthology 471
 agriculture 161, 310, 375, 376, 385, 386,

Energy (Cont.)

alternative sources 25, 171,
176, 264, 381, 525, 692
bibl. 48, 215, 254, 280, 281,
300, 301, 473, 474, 529, 563,
628, 756, 804
bibl. index 770
biofuels 561
bio-gas 629, 692
bio-gas, bibl. 649
biomass 98, 99, 150, 212, 264,
302, 311, 529
building/environment 739
catalogue 171, 283, 628
citizen groups directory 560
coal 216, 692
commercial buildings 237, 238
community enterprises 84
comparative costs 692
comparative sources 692
comparative use 375, 381, 692
comparative use US/Germany 334
comparative use US/Sweden 511
consumer's guide 307
consumer survey 572
consumption 191, 307, 334, 354
conversion, bibl. 556
court decisions 198
culture 208
directory, France 356
distribution/storage, bibl. 556
ecology/economics 580
economic processes 564
education resources, bibl. 274,
820
electric power 192, 282, 336,
350, 359, 360, 577, 692
employment 95, 216, 275, 354,
457, 466, 564, 696
environment, bibl. 273, 811
environment/economics 580, 582
equitable access 403
farming 161, 529
food 37, 310, 386, 464, 619
food, bibl. 617
geothermal 361, 362, 452, 692
geothermal directory 777
home insulation 182, 263
human welfare 192
hydrogen, bibl. 556, 596
industry programme 238, 381
input in industrial prod-
ucts 165, 381
insulation 182, 263, 557, 589

Energy (cont.)

library 23, 24
low costs 466
methane 81, 150, 212, 264,
311, 312, 362, 529, 630, 631,
692, 748
methane, bibl. 48, 302, 702
minimum use 403
neighbourhood food systems 306
nuclear 132, 198, 216, 217,
219, 455, 487, 577, 600, 692
oil/natural gas 561, 692
organizations U.S. 279, 281,
632
pedal power 494
plutonium 186
policy administration 20, 198,
238, 275, 539
political regulation 38, 198,
275, 539
power 581
production 191
public-owned electric
systems 542
recovery, bibl. 558
renewable 165, 176, 226, 362,
490, 529
rural/village 2, 226, 312
society 202, 208, 581, 744,
745
society, Sweden 697
soft technologies 485
solar 25, 47, 79, 123, 224,
264, 308, 357, 362, 609, 630,
631, 692, 748
solar, bibl. 276, 364, 371,
529, 556, 763
solar building 33, 59, 128,
146, 225, 595, 772, 813
solar building, bibl. 9, 32,
140, 242
solar building manual 574
solar catalogue 574
solar cooling 33, 128, 242,
813
solar directory 616
solar economics 633
solar heating 33, 59, 128, 146,
225, 242, 292, 529, 682, 739,
757, 813
solar/hydrogen 106, 556
source directory 566
state buildings 85
strip mining 198
systems 484
systems, bibl. 556

Energy (cont.)

systems, directory 281
thermal 361, 362, 452
thermal, bibl. 723
tidal power 350, 362
U.S. production system 38
waste 191, 302, 307, 692
waste heat 511
waste management 431
water 25, 123, 264, 362, 499,
529, 748
water, bibl. 762
wind 123, 264, 317, 336, 359,
360, 362, 384, 529, 630, 631,
748, 761
wind, bibl. 114, 141, 578, 800,
838
wood 25, 91, 232, 324, 529,
706, 748
world inventory 316, 333,
362, 486
world resources, bibl. 277
Energy Abstract for Policy
Analysis 48
Energy: A Continuing Bibliography
with Indexes 556
Energy: A Guide to Organizations
and Information Resources 632
Energy Alternatives: A Comparative
Analysis 692
The Energy and Environment
Bibliography 811
Energy and Power 694
Energy Bibliography Index 770
Energy bills 602
Energybook # 1 630
Energybook # 2 631
Energy conservation 38, 123, 307,
529, 490
Energy conservation,
barriers/benefits 564, 685
behavior 599
buildings 685
commercial buildings 237
education, bibl. 820
employment 466
house 182, 263, 557, 589, 734
industry 238, 685
landscape 85
strategies 599
The Energy Crisis 471
The Energy Directory 279
The Energy Education Bibliogra-
phy 820
Energy-efficient houses 170,
177, 262, 772, 796, 806
304

Energy Films Index 820
Energy for Survival 176
The Energy Index 280
Energy Information Locator 281
Energy Insider 49
Energy language 581
Energy Primer 529
Energy scrapbook 756
Energy Source Directory 566
Energy,
sources 2, 123, 307, 333
sources, bibl. 50, 176, 264,
399, 768
sources, cat. 25, 529, 566
Energy Technology Review 644
Energy Today 50
Energy: Who's Doing What 560
Engineering,
structural calculations 508
Engineering and science,
ref. sources 508, 509
Engineering Index 563
Environnement Africain 56
Environment 51
Environment 69, 105, 132, 133,
134, 147, 159, 187, 190, 552
bibl. 104, 172, 365, 372,
475, 677, 710, 781, 817, 840
bibl., France 534
building/energy 739
climatic architecture 594
dictionary 16, 673
domestication of plants/ani-
mals 784
energy, bibl. 273, 811
energy/economics 580, 582
health 249
housing, bibl. 817
legislation 284
organizations 795
organizations, bibl. 781
politics, France 112, 113,
540
thermal engineering 773
Environment Abstracts 52, 54
Environment Action Bulletin 53
Environment Index, 1971- 52,
54
Environment Informatio Center 52
54
Environmental Action Foun-
dation 559, 780, 63, 112
Environmental architecture,
bibl. 371
Environmental constraints 470,
491

Environmental control with plants 647
 Environmental education programs 635
 Environmental indices 408
Environmental Information Sources Handbook 842
Environmental Periodicals Bibliography 55
 Environmental planning, index 434
 Environmental pollution, bibl. 563
 Environmental Protection Agency, USA 75
 Environmental research centers directory 836
 Environmental sources directory 794
 Environmental studies, bibl. 267, 488
 Environmental Studies Institute 55
 Environmentally appropriate technology, Canada 490
 Equity/energy 403
ERDA Research Abstracts (ERA) 57
 Ethics of the professions, bibl. 347
 Evans, Clifford 666
 Everyday problems, bibl. 348
 Ewenstein, Neal 806
 Excerpta Medica Foundation 4
 Exchange Bibliographies 108, 119, 140, 200, 210, 242, 300, 301, 325, 331, 335, 351, 358, 393, 443, 447, 480, 483, 488, 547, 553, 638, 677, 703, 749, 817, 818, 822, 824, 825, 841
 Expropriation of health 404

F

Face-a-Femmes 776
 Fairchild, Wilma B. 365
 Falby, Walter F. 628
 FAO publications list 286
 Farming 17, 48, 285
 Africa 235
 companion plants 618, 857
 economic returns 161
 energy use 376
 forest 258
 mechanization 520
 organic 161, 181, 528
 urban 835
Federal Register 52
 Feld, B.T. 168

Feminism 53, 432, 675, 776
 Feminism, bibl. 266, 268
 Feminism, resource guide 601
 Ferber, Ellen 313, 314, 315, 142
 Ferguson, Tom 85
 Fertilizers
 green manure 375
Fiches écologiques 521
Fichier encyclopédique du développement rural 355
 Fichter, Robert 783
Fields within Fields 513
 Film and video 527
 Flour technology, bibl. 241
 Fluvial transport 543
 Food 37, 90, 133, 285, 755
 aquaculture 66, 90, 394, 528
 bibl. 6, 755
 biodynamic agriculture 285, 427, 528
 cooperatives 203, 297, 528, 652
 cooperatives, direct. 180, 418, 575
 decentralized systems 575
 development assistance 6
 energy efficiency, bibl. 617
 energy inputs 310, 386, 464, 619
 flour technology, bibl. 241
 forest farming 258
 greenhouse 292, 394
 neighbourhood systems 306
 nutrition 230, 460, 791
 organizations/programs 782
 proteins 460
 self-sufficiency 17
 solar greenhouse 292
 sprouting 199
 technical problems 3
 tree crops 258, 285
 urban agriculture 528, 598
 village nutrition, bibl. 686
 weeds 4
 world supply 461
 Food and agriculture, bibl. 563
Food Monitor 58
 Food scarcity 461
 Ford Foundation 275
Foreign Language Mail Order Catalog 413
 Forest farming 258
 Foster, Harold 242

Foundation for Alternatives 10
 Fournier, Pierre 69
 Fox, Fred 139
 Freedom 810
 Freedom Center 86
 Freedom to Build 783
 Frente Ecológica 59
 Friend, Gil 240
 Friends of the Earth, US 554, 101
 Fromm, Erich 83, 401
 Fuel economy, bibl. 27
 Fuels,
 organic 561, 692
 Fuller, Buckminster 316
 Fulton, Len 142
 Furnass, Bryan 249
 Furniture 220
 The Future: A Catalogue of
 Resources 847
 The Future: A Guide to Information
 Sources 848
 Futures 516, 60
 Futures Directory 501
 Futures Information Newsletter 61
 Futurism, bibl. 206, 332
 The Futurist 62

G

Gage, Tom 529
 Gandhi 453 (see also supplement)
 Garbage Guide 63
 Garbage in America 698
 Gardening 48
 Gardner, Richard 124
 Gashus, O.J. 350
 Gastronomy, bibl. 802
 Gautier, Y. 673
 Gee, Loren 91
 Geiger, Henry 82
 Geography and conservation,
 USSR 1
 Geography of disease 396
 Geothermal energy 361, 362, 452,
 692
 Geothermal energy, direct 777
 Geothermal World Directory 777
 German decentralized options 435
 Germany 42, 43, 44, 45, 246,
 435, 523, 683, 688, 751, 21,
 154, 160
 Godard, O. 90
 Goldsmith, Edward 45

Goldstein, Jerry 528
 Goodman, Paul 340
 Goodman, Percival 343
 Goodnight, Jill A. 599
 Gorham, Lucy 120
 Gorz, André 112, 113, 154
 Graff, Henry F. 72
 Graff, Thomas O. 817
 Grant, Donald M. 214
 Grants News Letter 64
 Gray, Dorothy A. 508
 Gray, Richard A. 508
 Greenhouse 292, 394, 855
 The Green Revolution: Moving
 Toward Community 65
 Gregg, Richard B. 618
 Ground Water: A Selected Bibliog-
 raphy 797
 Groundwater Newsletter 66
 Groupe de Recherche sur les
 Techniques rurales, GRET. 355
 Groups activities 410
 Groups directory 40
 Growing Without Schooling 67
 Growth Alternatives 68
 Growth and form 771
 Growth control 213, 291, 486
 Growth management 31, 366
 Growth opposition, bibl. 824
 La Gueule Ouverte - Combat Non
 Violent 69, 31
 Gueulette, David 591
 Guía del Consumidor 70
 Guide sommaire des ouvrages de
 référence en science
 sociale 531
 A Guide to Foreign Language
 Grammars and Dictionaries 809
 A Guide to Independent Film
 and Video 527
 Guide to Reference Books 705, 837
 Guide to Reference Mate-
 rial 807, 808

H

Habib, Victor 84
 Hamilton, William 746
 Hamon, Michele 323
 Handbook of the Nutritional
 Contents of Foods 791
 Handbuch der alternativen
 deutschsprachigen Literatur 688

- Handcrafts 34, 122, 220, 337,
397, 453, 463, 666
Handcrafts, cat. 183, 209, 622,
623
Handcrafts, Persia 853
Harbison, Frederick 440
Hardin, Garrett 178
Harms, Sally 256
Harper, Peter 39, 124, 382
Harrah, Barbara 372
Harrah, David 371
Harris, R.I. 336
Hart, Robert 258
Harvard Program on Technology
and Society 530
Harvie, Robert W. 277
Harwell, Ann J. 854
Health,
environment 249
fluorescent-lit buildings 603
nutrition 338
water supply, bibl. 823
wellness 49
Health Aspects of Pesticides:
Abstract Bulletin 109
Health care,
bibl. 127, 154
catalogue 727
China, bibl. 13, 296, 794
dental 500
develop. countr. 127, 253, 236
develop. countr., bibl. 789
dictionary 750
low cost rural, bibl. 14, 236
manpower training, bibl. 14,
236, 270, 330
Mexico 819
non-professionals 260, 819
policyguide 517
preventive medicine 674
professions 154, 260
self-help 321, 322, 819
U.K. 204
women, bibl. 211, 665
women healers 518
Heat greenhouse 292
Heating,
solar 33, 59, 128, 146, 225,
292, 529, 682, 708, 739, 757,
813
solar, bibl. 242, 723
waste energy 511
Hebert, Donald R. 238
Help: A Directory of Services
for Nonprofit Organizations 684
The Help One Another Club 790
Herring, Horace 382
Hess, Karl 544
Hill, Mike 382
Hirshberg 685
Histoire des Sciences et des
Techniques 24
Histoire des techniques et des
inventions 658
Historical literature 29
The Historical Roots of our
Ecologic Crisis 826
History 29, 51, 52, 178, 185, 229
anarchist collectives Spain 255
ancient technology 299
carriages, bibl. 645
communes 437
crafts, Persia 853
dyeing and textile printing 463
ecology 826, 850
ecology, bibl. 267
encyclopedias 185
engineering 51
fluvial transport 543
future society 52, 178
human settlement, bibl. 335
Islamic philosophy of
science 555
mechanization 326
The Movement 339
needs 405, 407
science, bibl. 420, 570, 571,
643, 679, 831
science and civilization,
bibl. 678
science and civilization in
China 567
sciences and technology 24
sciences and technology,
bibl. 662, 663
social movements, bibl. 393
techniques and civilization
548, 551
techniques and inventions 658,
801, 829
technology 229, 243, 298, 329,
712, 828, 830
technology, bibl. 290, 345,
640, 643
temperance/technology 827

- History (cont.)
 utopia 52, 94, 648, 815
 water closet/bathroom 852
 women in U.S., bibl. 189
 Hodak, Mark 743
 Hodel, Hans-Ruedi 76
 Hogan, Elizabeth 219
 Holistic health, bibl. 626
 Hollander, Jack M. 38
 Hollander, Jan-Erik 261
 Holmyard, E.J. 712
 Holt Associates Inc. 67
 Homesteading 565
 Homesteading, bibl. 553, 825
L'homme et son environnement 673
 Hopkins, Jenny 610
 Horse-drawn transportation,
 bibl. 645
 House,
 adobe 46, 222, 289, 532, 583,
 584, 843
 autonomous 170, 177, 772, 796
 bamboo 493
 building manual 222
 energy conservation 182, 263,
 557, 589, 734
 energy-efficient 170, 177, 262,
 772, 796, 806
 insulation 182, 263, 557, 589,
 734
 solar 9, 128, 225, 465, 813
 Household economics 143
 Housing,
 catalog 149, 754
 community action 726
 develop. countr. 769
 environmental, bibl. 817
 low-cost 213, 262, 436
 low-cost, bibl. 716, 766, 767
 policy 108
 vernacular 597, 660, 783
 Hou 't Klein 799
How-to-do-it-Books: A Selected
Guide 390
How to Publish Community
Information 613
 Human ecology, index 434
 Human rights, directory 173, 395
Human Rights Organizations and
Periodicals Directory 395
 Human settlement, bibl. 335
 Humanities and technology,
 bibl. 536
Humanizing City Life 42, 71
 Hunzinger, Francis 397
 Hydrogen power, bibl. 556, 596
 I.
The Iconography of Temperantia
and the Virtuousness of Tech-
nology 827
 Ideas and methods exchange 400
 Illich, Ivan 154, 228, 240, 592,
 751, 154
L'illusion technologique 469
An Index of Possibilities 171
Index Medicus 156
Index to English-Language Little
Magazines 670
 India 41, 245, 453, 479, 496,
 629, 636, 732, 830, 132, 139
 Industrial sociology, bibl. 778
Industrialism and Industrial
Man 440
 Industrialization of rural
 areas, bibl. 728
 Industry, China 233, 318
 Industry/energy futures 381
Information for Everyday
Survival 348
 Information for Policy Design 515
 Inner development, bibl. 625
An Inquiry into Low Cost Technolo-
gy Policy Issues 430
 Insects 528, 752, 857
 Institute for Liberty and Com-
 munity 492
 Institute for Local Self-
 Reliance 74, 193, 199
 Institute of Geography, USSR 1
 Institutionalized hunger 671
Institutions, Etc. 72
 Insulation 182, 263, 557, 589
Interchange: A Newsletter for
Learning Networks 73
 Interfaith Adopt-a-Building 790
 Intermediate techn., bibl. 57
 Internat. Development Data
 Center, USA 57

Internat. Development Research
 Centre, Ottawa 13, 14
Internat. Directory of Little
 Magazines and Small Presses 314
Internat. Solar Energy Society
 News 147
In The Making 74
Introduction to Reference
 Work 438
IRAL: International Review of
 Applied Linguistics in Language
 Teaching 75
Irregular Serials and Annuals 419,
 785
 Irrigation 15
 Irrigation and roads, India 496
Isis 570, 571, 678, 679, 831
Isis Critical Bibliography of the
 History of Science 570, 571,
 678, 831
Isis Cumulative Bibliography of
 the History of Science 831
 Islam,
 technology 555
Italia Alternativa 634

J

Jacobson, E. 458
 Japan 426, 78
 Japan Consulting Institute 426
 Japanese technical assistance 426
 Jencks, Christopher 169
 Jimerson 310
 Johnson, Lee 240
 Johnson, Steve 239
 Johnston, Peter 382
 Jonas, Hans 538
 Jones, Elizabeth 434
 Jones, John 820
Journal of the New Alchemists 76
 Journey to work, bibl. 822
 Jubal 180
 Junger, Ernst 538

K

Kaswan, Ruth 71
 Katz, Elizabeth 821
 Keiller, Patrick 81
 Kellner, Hansfried 89
 Kemper, Robert V. 205
 Keyfitz, Nathan 552
 Killilea, Marie 152

King, Robert 100
 Kingery, Robert 390
 Kinishi, Diane R. 472
 Krishna Prasad, K. 629
De Kleine Aarde 77
De Kleine Aarde 212, 772
 Kochwaser 145
Kogai 78
 Korot, Beryl 118
Het Kringloophuis 772
 Kumar, Devendra 132
 Kumar, Satish 641

L

Land reform 528
 Land reform, bibl. 717
 Land use planning, bibl. 387
 Langdon, Carl M. 3
 Language dictionaries, bibl. 184,
 411, 809
 Language grammars, bibl. 809
 Language learning, bibl. 71, 160,
 164, 166, 295, 323
 Language teaching mat.,
 Germany 683
 Language teaching mat., cat. 413
 Lappé, Frances Moore 791
 Large-scale ecological devices 316
 Lateinamerikanisches Institut der
 Hochschule St. Gallen 76
 Latin America 7, 205, 374, 423,
 651
Latin American Research
 Review 423
 Lawless, Bill 238
 Lawrence, William 257
Learning Exchange 79
 Learning exchange 269, 353, 472,
 724, 737
 The Learning Exchange, Evanston
 472, 737, 73
 Learning Resources Center 409
A Legal Handbook for Bill-
 board 284
 Legislation,
 conserver society 554
 deposit on bottles and cans 559
 environment 284
 homesteading 565
 solid waste 792
 Leroy, Gregory 612
 Lewis, C.S. 538

Librarians for Social Change 80

Librarianship 92, 428

Libraries,

alternative energy 23, 24

alternative periodicals 223

alternatives 821

economic history 640

environmental, directory 738

ephemera 11, 12, 86, 604

natural sciences 664

planning group directory 417

reference guides 438, 507, 508,

531, 639, 663, 705, 801, 807,

808, 837, 854

small press 92

social sciences 389

union lists 129, 223, 787, 788

urban communities 444

volunteer personal 715

Library Journal 566, 710, 715

Library of Congress 561, 562

Library science 55

Library science, bibl. 563

Lifestyle 81

Lifestyle Index 309

Lifestyles 26, 180, 200, 250,

287, 320, 341, 343, 344, 437,

760

Light and health 603

Limits to growth 467

Limits to growth conference 366

Limits to medicine 404

Limits to satisfaction 467

Limits to speed 403

Lippman, Deborah 183

A List of Clandestine Periodicals

of World War II 785

List of Science Library Bibliogra-

phical Series 693

Little City Halls 92

Little magazines 56, 188, 313,

314, 670, 787

Little press books 56, 188, 481

Little Press Books in Print 481

The Locator 281

Lovejoy, Stephen B. 480

Low-cost housing 213, 262, 436

Low-cost housing, bibl. 716,

766, 767

Low energy technology 403

Luce, Larry 106

Lussenhop, John F. 267

Lutheran World Service 661

M

McCarthy, Colleen 592

McCormack, Deborah 759

McGraw-Hill Dictionary of Scien-
tific and Technical Terms 459

Mach, E.P. 253

McHale, Magda C. 501

Macinko, George 365

McIntosh, Robert P. 267

Mackey, Robert 537, 538

McLarney, Bill 528

McLarney, William O. 66

McRobie, G. 197

Mailing lists,

catalogue 124

movement organizations 505, 124

nuclear activists 506, 124

Malcles, L.N. 664

Man and the Ecosphere 695

Man and the Environment: A Bibliog-
raphy 840

Manas 82

Manuel de bibliographie philoso-
phique 801

Manuel de la vie pauvre 278

Manure fertilizing 375

Marginals/outsideers, bibl. 60

Marien, Michael 61, 115

Marketing/marketplaces,

bibl. 547

Marten, Mike 171

Mass media and Marxism,

bibl. 414

Mathematics/physics, bibl. 607

Matté, G. 521

May, John 171

Mechanical clock/ascetism 827

Mechanization history 326

Media Connection: Catalog of

Resources 83

Media groups 16

Media works 96

Medical auxiliaries, bibl. 14,

236, 270, 330

Medical Letter on Drugs and

Therapeutics 84

Medical Self-Care: Access to

Medical Tools 85

Medicine,

autogene training 458

bibl. 36, 102, 374, 404, 610,

614

geography of disease 396

Medicine (cont.)
 herbal remedies 422
 laboratory equipment 441
 limits, bibl. 404
 preventive, handbook 674
Medico Friend Circle Bulletin 86
Medieval Technology and Social Change 828
 Merrill, Richard 311
 Merrill, Yedida 311
 Merritt, Richard 244
 Mesthene, Emmanuel 538
 Metalworkers' Union 305
 Methane 81, 150, 311, 346, 561, 630, 631, 692, 748
 Methane, bibl. 48, 302, 702
 Mexico 651
 Miasek, M.A. 483
 Military policy, bibl. 433
 Miller, Martin A. 451
 Miller, Milton H. 58
 Mintz, Sidney 547
The Modern Researcher 72
 Modernization, bibl. 735
 Modernization vs. crafts 337
 Molenaar 15
Le Monde 540
 Monopolies of professions 403, 404, 405
 Moore, James A. 702
 Moore, Sharon 348
 Morales, H.L. 90
 Morphology 771
 Morris, David 240, 306, 307, 383
Mother Earth News 87
The Movement 86, 339
 Movement organizations, mailing list, U.S. 505, 124
 Movements, history 393
 Mud building 46, 289, 532, 583, 843
 Mud roofs/domes 222, 584
 Müller, Marlis 76
 Müller, Ronald 68
 Muller, R.H. 729
 Mullinack, Winifred 256
 Multinational corporations 68, 207
 Mumford, Lewis 538, 573
Municipal Decentralization and Neighborhood Resources 92
 Munoz, V. 448
 Mural manual 650
Mushroom: A Magazine on Alternative Living in New Zealand 88

Muzzy, Adrienne Florence 785
 Myers, C.A. 440

N

NACLA 89
NACLA Report 89
 Narasiah, S. 317
 NASA 556
 National Center for Action on Institutions and Alternatives 72
 National Center for Appropriate Technology, Butte, Montana 364
National Free University News 590
 National Science Foundation, USA 40, 78
 National Self-Help Clearing House 135
 National Self-Help Resource Center 790
 National Swedish Institute for Building Research 261
 Nationalism and national development, bibl. 244
Natura: Tu salud en la naturaleza 90
Natural Energy 91
 Natural resources, bibl. 267
 Natural resources, USSR 1
 Natural sciences, dictionary 195
 Natural sciences, literature 664
 Needs and commodities 467
 Neighborhood action 74, 100, 147, 288, 306, 383, 544, 719
 Neighborhood corporation 446
Neighborhood Ideas 92
The Neighborhood Works 93
 Nemesis 404
Network: Quodlibeta 94
 New Alchemy Institute 311, 76
New Directions in State and Local Tax Reform 659
The New Ecologist 95
New Energy Technologies for Buildings 685
 New Farm 105
 New Left Collection 86
 The New Periodicals Index 526, 96
 New Roots 97
The New Woman's Survival Catalog 352
 New Zealand 495, 759, 88, 98
 New Zealand Environment 98

News from Neasden: A Catalogue
of New Radical Publications 99
Ninety-nine Ways to a Simple
Lifestyle 760
 Noise, bibl. 294, 442
 Noise control, handbook 373
 Non-profit organizations 28
North Country Anvil 100
North, Michael 641
Not Man Apart 101
The Notebooks of Samuel
Butler 144
Nouvelles de l'Ecodéveloppe-
ment 102
 Noyce, John L. 80
 NTIS Bibliographic Data File 563
 Nuclear activists directory 251
 Nuclear activists mailing
 lists 506, 124
 Nuclear energy 132, 198, 216,
 219, 455, 487, 577, 600
 Nuclear energy, bibl. 217
 Nuclear nuisance 468
 Nutrition 230, 338, 460, 791
Nutrition Action 103

O

Ocean waste disposal, bibl. 416
 Odors, bibl. 8
 Odum, Elizabeth 582
 Odum, Howard 240
 Office of Approp. Technol.,
 California 9, 64
 Office of Environmental Educa-
 tion, USA 37
 Office of Solid Waste Management
 Programs, USA 75
 Office of State Architect,
 California 85
 Ogburn, F. 327
 Olgray, Victor 595
 Olkowski, Helga 528
 Olkowski, William 598
On Participation 135
Ontario Energy Catalogue 628
The Open Network News 104
 Operation SHARE 790
Organic Gardening 105
Organic Gardening and Farming 105
The Organic Way to Plant Pro-
tection 857
Other Presses in Print 106
 Otte, Carel 452
 Overdeveloped nations 445
Overskill 691

P

Pakistan 666
 Palms 585
 Pam, Rick 226
 Papua-New Guinea 69, 476
 Parker, Jennifer 120
 Parthasarathi, A. 168
 Participatory democracy 87
 Pasquier, Francoise 776
 Passmore, R. 117
 Patel, Ashvin J. 86
 Paulik, Gerald 552
 Peace, bibl. 117
Peace News 107
 Peace studies, bibl. 58
 Pedal power 494
 Pedestrians, bibl. 119
 Peking Agricultural Exhibition 814
 Pelissou, Albert 146
People and Energy 108
People's Food System 159
 Perelman, Michael 528
 Periodicals,
 directory 785
 index 526
 protest, bibl. 729, 730
 union lists 129, 223, 787, 788
 Persia 853
 Pest control 528, 752, 857
Pesticides Abstracts 109
 Peterson, Christina 37
 Peterson, David 291
 Pfister, Wally 76
 Pharmaceutical reference
 literature 610
Philosopher's Index 537
 "Philosophers" e.g.
 Bookchin, Murray 109, 110
 Dessauer, Friedrich 243
 Dickson, David 247
 Ellul, Jacques 271
 Gandhi (see suppl.)
 Goodman, Paul 340-343
 Harper, Peter 124, 367-370
 Illich, Ivan 401-407
 Jungk, Robert 435
 Kropotkin, Petr 448-451
 Leroi-Gourhan, André 469
 Mumford, Lewis 548-551, 573
 Roszak, Theodore 656, 657
 Schumacher, Fritz 689, 690
Philosophie de la culture et de
la technique 537
 Philosophy,
 culture 656
 science, bibl. 678

Philosophy (cont.)
 science in muslim countries 555
 technical change 247
 technology 259, 657
 technology, anthol. 538
 technology, bibl. 537, 801
 technology, bibl., Germany 243, 380
 Photovoltaics 25, 79
 P.I.A.F. Environnement 110
 Pierson, Robert, W. Jr. 775
 Pinkerton, Marjorie J. 620
 Plants,
 cooling effects 234, 647
 domestication 784
 endangered species, bibl. 483
 environmental control 528, 647, 752
 mutual influences 618, 857
 noise and wind control 647
 pathogens 61
 tropical 5
 La Pléiade 329
 Plutonium 186
 Policyguide for health,
 bibl. 517
 Political Committee of the
 London Cooperative Society 99
 Political Ephemera Collection 86
 Politics,
 decentralized society 435
 energy, bibl. 254
 German citizen groups 523
 German metalworkers' union 305
 medicine's effectiveness 404
 neighbourhood government 446
 post-industrial society 657
 public-owned electric
 systems 542
 technical change 247, 502,
 530, 690
 Pollution,
 air, bibl. 443
 lake and river, bibl. 713
 radioactive 132, 468
 water 174, 775
 Pollution Abstracts 111
 Population constraints 187
 Portola Institute 19
 Positive Alternative Futures,
 bibl. 482
 Post-industrial society 516
 Power and energy 581
 The Power Line 112
 Practical Self-Sufficiency 113

Pratt Center for Community and
 Environmental Development 150
 Press 107
 alternative/underground 11, 12,
 21, 22, 26, 86, 92, 155
 small/little 56, 188
 Price, John 487
 Professional monopoly 403, 404,
 405
 Professions ethics, bibl. 347
 Progress as if Survival
 Mattered 554
 Pronin, Monica 387
 Protest periodicals, bibl. 729,
 730
 Public Interest Economics
 Review 114
 Public-owned electric systems 542
 Public Policy Book Forecast 115
 Public utilities 602
 Public ways and works in India 496
 Public Works: A Handbook for
 Self-Reliant Living 758
 The Publish-It-Yourself Hand-
 book 378
 Publishers' catalogues 53, 134,
 267, 286, 412
 Publishers' lists 473, 474, 475,
 478
 Publishing handbook 378
 Publishing techniques 613
 Pumps 637, 814
 Pyle, Leo 302

Quality of life 305

R

Rabb, T.K. 827
 Radiation, T.V. 603
 Radical Agriculture 528
 Radical Ecologist 116
 Radical monopoly 403, 404, 405
 Radical Science Journal 858, 117
 Radical Software 118
 Radical Technology 124, 367
 Radical technology, bibl. 367
 Radio stations 533
 Railroad stations 265
 Rain 239, 690, 119
 Rainbook 239, 119

Rammed earth construction 532
 Randall, Edwina 82
 La Raza 790
 Reader's Adviser 639
A Reader's Guide to the Social Sciences 389
Real Time 130
Reason Monthly 120
 Recreation, bibl. 620
 Reddy, A.K.N. 629
 Reference Services Review 121
Regional and Urban Solid Waste Disposal: A Bibliography 792
 Relis, Paul 528
 Rennie, Susan 352
 Research and Study Centre for the Spread of the French Language 323
Research in Philosophy and Technology 259
Research in the Teaching of English, Champaign, Ill. 122
Research in the Teaching of English, Urbana, Ill. 123
 Research science 72
 Resource recovery, bibl. 558
 Resources and Man 187
 Resources constraints 133, 187
Resources for Appropriate Technology in Santa Clara County 676
Resources for the Study of Economic History 640
Resources Newsletter 124
Resurgence 641, 125
Revista del Consumidor 126
Revolting Librarians 821
 Reynaud, Jean-Daniel 778
 Riessman, Frank 321, 322
 Riordan, Michael 33
 Robinson, Yvonne 136
Rodale's Environment Action Bulletin 127
 Roeder, Judith E.R. 82
 Roofs/domes 222, 584
 Roos, Charles 102
 Rosenberg, Joel 593
 Rosenberg-Dishman, Marie B. 266
 Rosenfeld, Edward 130
 Ross, Carol 655
 Roszak, Theodore 178, 689
 Roussopoulos, Dimitros 87

Roux, Daniel 146
 Roysdon, Christine 536
 Ruckelshaus, William 151
 Rural activities, bibl. 235
 Rural development 355
 Rural development, Papua New Guinea 476
Rural Development Network Bulletin 128
 Rural India, bibl. 245
 Rural industrialization, bibl. 480, 728
 Rural skills 519
 Rural small industries 209
 Rural, small technology 226, 519
 water supply, bibl. 823
 Ryther, John H.

S

Sachs, Ignacy 673
San Francisco Bay Area People's Yellow Pages 256
 Sarton, George 663
 Saunders, Nicolas 851
Le Sauvage 129
 Scale diseconomies 445
 Schiffmacher, S.A. 596
 Schneider, Ira 118
 School system 402
 Schumacher, Fritz 178, 240, 258, 379, 799
 Science and civilization 691
Science and Engineering Literature: A Guide to Reference Sources 508
 Science and society 858
 Science and society, bibl. 733
Science and Society in East and West 567
Science and Technology 808
 Science and technology 175, 272, 377
 Science and technology, bibl. 497, 507, 733
 Science and technology bibl., Latin America 423
 Science and technology, encyclopedia 498
 Science and the citizen, bibl. 454
 Science dictionary 349

- Science fiction, bibl 35, 70,
 214, 363
 Science fiction, directory 54
Science for People 130
Science for the People 131
Science for Villages 132
 The Science Library 693
Science Reference Sources 428
 Science, technology and society,
 directory 377
 Les sciences philosophiques 801
Scientific American 694, 695
 Scientific words, glossary 293
 Scilken, Marvin H. 161
 Scofield, Bernard 622, 623
Second Thoughts 133
Seed Catalog 687
 Seigel, J.E. 827
 Seldman, Neil N. 569
Selected Guide to Make-it, Fix-it,
 Do-it-Yourself Books 579
The Self-Determination Quarterly
 Journal 134
 Self-employment 546
 Self-help 321, 322
 Self-Help Clearing House 136
 Self-help organizations 152, 322
 Self-help projects directory 790
Self-Help Reporter 135
Self-Help Spotlight 136
 Self-managed society 846
Self-Reliance 719, 137
 Self-reliance 168, 193, 758
Self-Reliance Newsletter 138
 Self-sufficiency,
 farming 701
 food 17
 gardener 700
 house 170, 177, 772, 796
 neighbourhoods 193, 288, 383,
 446, 544
 village 153
 Self-sufficiency guide 699
Seminar 245, 139
 Senate Select Committee on
 Small Business 740
 Senegal 56
 Serials Union Lists 129, 223,
 787, 798
 Serials and annuals, directory 419
 Service Sector of the Economy
 Conference 514
 Service society 516
 Service society, bibl. 514
 Seviour, Chris 823
 Sewage,
 compost 346, 798
 disposal/economics 745
 drinking water 588
 effluent/sludge, bibl. 462, 561
 farm/forest land treatment 745
 greywater 798, 812, 839
 municipal systems 569
 urban stormwater 30, 624
 waste water 317, 798, 812
 Seymour, Sally 701
 Shapiro, Andrew B. 706
 Sharp, Archibald 832
 Shelter almanac 149
Shelter and Society 597
 Shelter scrapbook 754
 Sherwin, Robert Jr. 394
 Shevin, Jann 398
 Shils, Maurice 338
 Sholtis, Phyllis 836
Side Effects of Drugs 709
 Sierra Club 781
 Silin, Robert H. 547
Simple Living 140
 Simplified engineering 608
 Singer, Andrew 81
Sipapu 141
 Size and shapes 771
 Size effects 445, 689, 740,
 741, 742, 743, 799
 Small business economics 740
 Small scale energy production 748
 Small scale technology 47, 226,
 689, 793, 799
 Small enterprise economics 742
 Small industries 426
 Small industries, bibl. 28
 Small industries, U.K., bibl. 209
 Small markets/plants
 economics 743
 Small plant, India 732
 Small press 56, 188, 315
 Small press, Germany 439, 688
 Small Press Mailing List 124
Small Press Record of Books
 in Print 315
Small Press Review 142
Small Town Monthly 143
Small Towns Institute 143
 Smallness 445, 689, 740, 741, 742
 Smith, Katherine Archer 304
 Smith, Robert 764

- Smith, Scott E. 235
 Snyder, Rachel 148
Social Alternatives 144
Social Aspects of Energy
 Conservation 599
 Social change,
 bibl. 304, 447
 directory 576
 literature 138
 medieval technology 828
 Social Documents Collections 86
 Social engineering 509
 Social Movements Collections 86
 Social Protest Project 86
 Social Responsibilities Round
 Table 26, 145
Social Responsibilities Round
 Table Newsletter 145
 Social sciences, reader 389, 531
 Social structure and energy 697,
 744
 Social thought 94
 Socially appropriate tech-
 nology 197, 303
 Societal directions and alter-
 natives, bibl. 515
 Societal stage schemes 513
La Sociologie Contemporaine 778
 Sociology,
 development 145
 industrialization, bibl. 778
 knowledge 89
 modernization, bibl. 131
 progress, bibl. 62
 science, bibl. 65, 227
 technology 175, 271, 327,
 502, 530
 technology, bibl. 328, 425
Soft-Tech. 63
 Soft technology 39, 369, 370,
 485
 Soft technology, cat. 63
 Solar 25, 47, 79, 123, 224, 264,
 308, 357, 362, 609, 630, 631,
 748
 bibl. 276, 364, 371, 529, 556,
 763
 building 33, 59, 128, 146,
 225, 595
 building, bibl. 9, 32, 140,
 242
 building manual 574
 cooking, bibl. 723
 cooling 33, 128, 242
 Solar (cont.)
 cooling, bibl. 723
 engines 59
 flat plate collector 25, 59,
 79, 529
 greenhouse 292, 394, 855
 heated buildings directory 739,
 757
 heated buildings survey 708
 heating 33, 59, 128, 146, 225,
 292, 529, 682
 heating, bibl. 242, 723, 763
 heating organizations,
 directory 707
 house 128, 225, 465, 813
 house, bibl. 9
 hydrogen 106
 industry directory 252
 organizations directory 642
 photovoltaics 25, 79
 products/professionals,
 cat. 504
 technical feasibility 633
 thermal energy, bibl. 723
 water distillation, bibl. 723
Solar Age Catalog 504, 721
Solar Age Magazine 504, 721
 Solar Data 252
Solar Directory 616
Solar Energy and Research
 Directory 722
Solar Energy Catalogue 574
Solar Energy Digest 146
 Solar energy directories 616, 722
Solar Energy Journal 147
Solar News and Views 147
Solar Update 642
Solar Utilization News - SUN 148
 Solla Price, Derek 733
Sourcebook on the Environ-
 ment 365
Les sources du travail biblio-
 graphique 664
 South Bronx 719
 The Southeast Alabama Self-Help
 Association 790
 Soviet Union 1
 Spaceship Earth 316
 Spahn, J.P. 729, 730
 Spain 6
Spark 149
Speculum 829
 Spinrad, Bernard I. 471
 Sprouting 199

Stafford, A.B. 328
 Stanford Environmental Law
 Society 213
 Steady state economy 221
 Stein, Jane 685
 Steinhart, John 744
 Stephenson, Peter 304
Stepping Stones 240
 Stone age culture 671
 Stormwater runoff 30, 624
 Stoves,
 wood 25, 232, 324, 655
Street: Magazine of the
 Environment 150
Sun! 308
Sunspark Guide to Alternative
 Periodicals 155
Sunspots 59
Survival Scrapbooks 753, 754,
 755, 756
The Survivalists 646
Survivre et Vivre 151
 Sweden 511, 697
 Swenson, Lee 140
 Switzerland 42, 43, 44, 45, 246,
 751, 21
Synergy: A Directory of Energy
 Alternatives 152
Synopsis and Summaries from
 National Swedish Building
 Research 153

T

Task Force on Alternatives in
 Print 26
 Tanzania 503
 Tapes exchange 415
 Tax credits 93
 Tax reform citizen guide 659
 Teague, Terri 422
Technics and Civilization 548,
 551
 Technocratic society 656, 657
 Technology and Development
 Institute, Hawaii 766, 767
Technology and Inventions in
 the Middle Ages 829
Technology of Culture 712
Technologie und Politik 154
 Teeth self-care 500
 Temperance and technology 827
 Thapar, Romesh 139

Thermal energy 361, 371
 Thermal energy, bibl. 723
 Thermal environmental engi-
 neering 773
Tibet, India, and Malaya as
 Sources of Western Medieval
 Technology 830
 Tidal power 350, 361, 371
 Tievant, Pascale 397
Tilth 155
 Todd, John 528
 Toilets 48, 85, 477, 747, 798
Tools and how to use them: An
 illustrated encyclopedia 421
 Tools catalogues,
 agriculture 121
 Austria 43, 44, 246
 Canada 18
 China 388
 France 157, 218, 278
 Germany 42, 44, 246
 India 41
 Italia 634
 London 680
 New Zealand 759
 Papua New Guinea 476
 Santa Clara County, US 676
 Scotland 851
 Switzerland 44, 246
 U.K. 124, 541, 681
 US/internat. 148, 421, 753,
 758, 760, 833, 834
 woodworking 672
Tools for Conviviality 406
Top Secret 86, 29
Top Secret Network 124
 Townsend, P.J. 182
Toxicity Bibliography 156
 Trade directory 575
 Traditional medicine, bibl. 374
Tranet 157
 Transportation,
 bibl. 231
 bikeways systems 257, 391
 bikeways systems, bibl. 331
 energy limits 403
 fluvial network 543
 journey to work, bibl. 822
 systems 101, 231
 urban commodity, bibl. 351
 urban social travel, bibl. 749

Transportation and poverty,
bibl. 638
El Trimestre Económico 423
Tripot 158
Tropics,
building 222
cooling effects of trees 234
ecotechnics 651
forest farming 258
plants 5, 90
Tudge, Colin 17
Turner, John 769
Turnover 159

U

Ui, Jun 78
Ulcus Molle Informationdienst 160
Ulrich's International Periodi-
cals Directory 785
Umdenken - Umschwenken 42
The U N A B A S H E D
Librarian 161
Undercurrents 124, 162
Underground press,
Canada 845
catalogue 26
directories 11, 12, 22, 155,
223, 313, 314, 315
France 88
Germany 439, 478, 688
index 21, 526, 670
librarians movement 92
libraries network 11, 12, 86,
604
U.K. 56
union list 223, 787
Unemployment 405, 407
Union Catalogue of Periodicals,
U.K. 129
Union List of Alternative Period-
icals in Libraries of the U.S.
and Canada 223
Union List of Little Maga-
zines 787
Union List of Serials 129
Union List of Serials in Libraries
of the U.S. and Canada 788
Urban agriculture 528, 598
Urban Alternatives Group 42, 71
Urban and regional technology,
bibl. 563
Urban Antigrowth, bibl. 824

Urban commodity transporta-
tion, bibl. 351
Urban composting 719, 798
Urban development 109
Urban environment, bibl. 82
Urban farming 835
Urban growth control 125, 213
Urban homesteading 565
Urban homesteading, bibl. 553,
825
Urban neighbourhood 383
Urban planning, bibl. 126
Urban sewage 30, 624, 798
Urban social travel, bibl. 749
Urbanization,
Latin America, bibl. 205
Latin America, directory 667
Use of Earth Sciences Litera-
ture 844
The Use of Smallness 741
Use-value technique economy 429
Use-values 405, 407, 621
Useful unemployment 405, 407
USSR 1
USSR/USA convergence theory 440
Utility Action Guide 282
Utopia 83, 94, 136, 545, 815
Utopian literature 52, 648, 816
Utopian literature, bibl. 568, 729,
730

V

Vale, Robert 796
Varney, Frederick M. 456
Verne, Etienne 228
Videoart: An Anthology 118
Video groups, directory 415, 725
Village architecture 289
Village nutrition, bibl. 686
Village technology 226, 661, 805
India 41, 245, 453, 479
Tanzania 503
Village Technology Handbook 661,
805
Vocations for Social Change 803,
83, 168
Volunteers in Asia 226, 430
Volunteers in Libraries 715

- Wald, George 178
 Walden House 790
 Ward, Colin 449
 Ward, Don 269
 Waste 25, 111, 150, 191, 561
 bibl. 48, 75, 91, 325, 358,
 416, 702, 703
 compost 477, 798
 conversion 561, 692
 conversion, bibl. 636
 greywater systems 798, 812,
 839
 handling technology 636
 handling technology,
 bibl. 792
 heat energy 511
 heat from power plants 644
 management 431, 586; 587, 698
 management, bibl. 792
 product durability, bibl. 720
 recovery 714
 recovery, bibl. 558
 recycling 698, 714, 798
 recycling industry, bibl. 562
 solid waste 586, 587
 solid waste, bibl. 562, 792
 Waste water aeration 317
 Waste water treatment 644, 745,
 798, 812
 Waste water treatment, bibl. 764
The Wastebih 163
 Water,
 conservation 535, 747
 disinfection 588
 equipment manufacturers 535
 greywater 798, 812, 839
 ground water, bibl. 797
 low-cost technology, bibl. 73
 pollution 174, 775
 pollution, bibl. 713
 pumping devices 15, 637, 814
 waste aeration 317
 waste treatment 644, 745, 812
 waste treatment, bibl. 764
 Water closet history 852
 Water power 25, 122, 264, 362,
 499, 529, 748
 Water power, bibl. 762
Water Newsletter 66
 Water supply,
 disinfection 162
 Latin America, bibl. 7
 Middle East, bibl. 7
 Water supply (cont.)
 plastic piping, bibl. 849
 sanitation, bibl. 823
 Waterwheels 529
 Watt, S.B. 197
 The Watts Job Clearinghouse 790
 Weaver, Harry L. 137
 Weeds 4
 Weingart 685
 Welke, Bob 94
The Well Body Book 674
 Wellness 49, 626; 674
Wellness: The Yes! Bookshop
Guide 626
 Wenig, Mikki 180
Where There is No Doctor 819
 Whitaker, Marilyn 818
 White, Lynn Jr. 538
 White, Ronald K. 334
Whole Earth 164
Wildcat 165
 Williams, Harold S. 741
 Williams, Trevor I. 712
 Williamson 93
 Wilson, David G. 832
 Wilson, S.S. 197
Win 166
Wind Energy Bibliography 838
 Wind,
 energy conversion, bibl. 578
 experiments, Europe 800
 generators 529, 359, 360, 384
 generators, bibl. 384, 768, 800
 machines 336, 768
 Windmills,
 farms 384
 manual 637
 plans 761
 Wind power 25, 317, 336, 362,
 384, 529, 630, 631, 748
 bibl. 47, 114, 141, 264, 768,
 800, 838, 841
 equipment directory 711
 Women and society, bibl. 266, 654
 Women healers 518
 Wood,
 heating 324, 529, 706, 748
 stoves 25, 232, 324, 655
 waste, bibl. 91
The Woodburners Encyclopedia 706
Woodworking tools cat. 672
The Workbook 167
 Workers' councils 605, 846
Workforce 168

Working Papers for a New
Society 169
 World Development 423
World Directory of Environmental
Education Programs 635
World Directory of Environmental
Research Centers 836
 World Food Crisis, directory 782
 World Future Society 206, 847,
 848, 62
 World Game Workshop 316
 World Health Organization 346,
 849
The World Institute Guide to
Alternative Futures for
Health 517
 Worsley, Chris 851
 Wyatt, H.V. 116
 Wynkoop, Sally 854

Y

Yanda, Bill 292
 Yanda, Susan B. 855
 Yellow pages 615, 803
 Yellow pages, Germany 45
 Yellow pages, U.S.,
 Boston 115
 San Francisco 256, 675
 Seattle 120
The Yes! Bookshop Guide 626
The Yes! Guide 625
 Yes! Inc. 625, 626
 The Youth Project 684

Z

Zarefsky, David 491
Zen and the Art of Motorcycle
Maintenance: An Inquiry into
Values 621
 Ziegler, Karen 642