definitely marks a major improvement over the original version.—James W. Geary, Kent State University, Ohio.


This volume comprises thirteen papers presented at a seminar entitled "Information Technology as a Tool for Information Use" at the Royal School of Librarianship, Copenhagen, in May 1985. The seminar was international in scope and produced papers on diverse topics, but, as a collection of such, this volume fails to present the unified view of information science theory or practice that is suggested by the subtitle. In fact, there are several conflicting viewpoints presented in the various papers.

Well-known authors in information science, such as F. W. Lancaster and Blaise Cronin, have contributed to this collection. The papers are organized under three themes: (1) "Socio-Economic Aspects and Policy-Making"; (2) "Information Systems Design: Pragmatic Issues"; and (3) "Education for Information." Lancaster has contributed an excellent introduction in which he raises several important questions concerning the present state of information technology and accessibility to information. He expresses his doubt that subject specialists have any better access to the relevant literature in their fields than they had before the advent of computerized information systems. He also predicts a vital role for the information gatekeepers of the future. Both of these viewpoints are contradicted by other authors.

Common themes addressed in this volume are the difficulty of measuring qualitative and quantitative contributions of information and information technology in organizations, the debate concerning generalization versus specialization in library and information science education, and the question of whether there will be greater or lesser future roles for librarians.
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and information intermediaries in light of advances in information technology. Business, industrial, and educational settings are discussed.

The papers presented under the topic "Education for Information" will be of greatest interest to an academic readership. Both optimistic and rather critical viewpoints are expressed concerning the present state of educational programs. Leif Kajberg discusses the restructured library and information science curriculum at the Royal School of Librarianship and concludes that the past program was inadequate for successful preparation of students for future information professions. He bemoans the liberal arts background of the majority of students: they lack quantitative skills, and a high proportion of them are "reading-oriented, introvert and handicapped in some way or other." Cronin also suggests changes in existing educational structures for the education of "electronic librarians." Irene Wormell describes the current state of library and information science education as "chaotic and controversial" and stresses specialization in education for the information professions. Ann Irving discusses the U.K. Microelectronics Education Programme for primary school education and suggests that information professionals will become obsolete as future citizens become their own information managers. She raises the rather absurd question of whether children should continue to be taught to write in light of speech recognition and communications technology.

On the theme "Information Systems Design," Lancaster discusses the evaluation of information services and the difficulty of measuring cost-effectiveness in their provision. Linda C. Smith describes knowledge-based systems and artificial intelligence and defines associated terminology. Peter Bøgh Anderson presents an interesting set of metaphors to describe interaction between humans and automated systems from the point of view of computers as media. Another topic addressed in this section is human factors and their relevance to information systems design.
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The papers presented under the topic "Socio-Economic Aspects and Policy-Making" are primarily concerned with cost/benefit models for information services and quantitative contributions of information and information technology to productivity in business and industry. Inge Berg Hansen discusses the need for national information policies and the design of one such policy in Denmark.

On the whole, this volume does not provide a comprehensive overview of the field: it is a haphazard collection that presents diverse opinions on different aspects of information and information technology in the public and private sectors.—

Dana S. Edwards, University Library, University of Illinois at Chicago.

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