

Materials Selection as an Interdisciplinary Technical Activity: Basic Methodology and Case Studies

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The technical activity known as Materials Selection is reviewed in its concepts and methodologies. Objectives and strategies are briefly presented and two important features are introduced and discussed: (i) Merit Indices: a combination of materials properties, which maximises the objectives chosen by the designer and (ii) Materials Properties Maps: a bi-dimensional space whose coordinates are pairs of properties in which materials can be plotted and compared directly in terms of their merit indices. A general strategy for the deduction of these indices is explained and a formal methodology to establish a ranking of candidate materials when multiple constraints intervene is presented. Finally, two case studies are discussed in depth, one related to materials substitution in the context of mechanical design and a less conventional case linking material selection to physical comfort in the home furniture industry.

Keywords: materials selection; design; merit indices

1. Introduction

Engineers are trained to execute many different technical activities such as product design, process optimisation, plant maintenance and quality control, to name only a few. Historically, their expertise has been adjusted to demand by specialisation, in other words, mechanical, materials, industrial, chemical, electronic engineers etc., each acting within defined boundaries, were until recently the typical human resource of all industrial/technical activities. Presently, however, in the scenario designed by modern industry the various technical fields overlap to a large extent. An important consequence of such impingement is that interdisciplinary knowledge is replacing strict specialisation and that decision-making processes are becoming increasingly complex leading to the aggregation of experts into teamwork. This means that professionals with different bodies of knowledge combine around a common problem, each providing its own expertise and, above all, communicating across it. The quality of this communication is determinant for the success of the whole enterprise and the main ingredient of that quality is the sharing and cross-fertilisation of both knowledge and information.

One of the technical activities in which interdisciplinarity and the benefits of teamwork are particularly strong is materials selection (MS). Within this interdisciplinarity

two levels may be distinguished. The former is essentially internal; in order to be carried out properly, MS must be combined with process selection (PS), thus integrating materials, metallurgical, process and production engineers. The external level is more complex, since multiple interactions between design, materials, process capabilities, market size and nature, cost, environmental impact and other constraints, must be taken into account¹. Thus, at the internal level these interactions are easily identified: for instance, material and process; mechanical properties and stress analysis; product design and shaping characteristics of the candidate materials, etc. On the other hand, an example of interdisciplinarity at the external level would be the cost assessment of a particular product as a function of population buying power patterns forecast. It is apparent that the expertise required for decision-making processes of this nature must be found outside the strictly technical team, which was sufficient only at the internal level. Thus, depending of the economic weight of the decision it would not be exaggerated to say that engineers, marketing specialists, psychologists, demographers and, perhaps, political scientists are all equally necessary for such enterprise.

Figure 1 shows schematically the interactive or feedback relationships joining design and MS around a common objective. Interactions are limited to the level of the present paper's concern, that is, the internal level. In this figure, it

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Selection of Library Materials in Applied and Interdisciplinary Fields Beth J. Shapiro, John Whaley, American Library Association. Collection Management and Development Committee, 1987 Offers advice on strategies and sources for selecting materials in agriculture business criminal justice education law social work urban planning and the health sciences

Selection of Library Materials in Applied and Interdisciplinary Fields, 1987 Acquisitions and Collection Development in the Humanities Linda S Katz, Sally J Kenney, Helen Kinsella, 2013-10-31 Acquisitions and Collection Development in the Humanities is a one of a kind guide on the procedures approaches and principles needed to make sound decisions in acquiring materials in various areas of the humanities It gives you an inside look at managerial concerns in documentary delivery changing budgetary needs and fluctuations in journal prices and helps you address many of the important questions in acquisitions and collection development within both traditional and technological environments As contributing author Dennis Dillon puts it the ultimate goal of humanities librarians is not to acquire information bytes and bits but to promote integrity integrity of texts integrity of selection the integrity of the collection and the integrity of the library and its ultimate purpose This objective underlies this multifaceted and comprehensive collection of articles as the authors address many interesting issues developments and challenges in the field including selecting candidates for digitization and producing e texts collecting in areas that don t have immediate utility or that may be unpopular what librarians need to know about the humanities as a discipline in order to effectively meet the informational and technological needs of their constituencies online discussion groups as useful sources of webliographic information cooperative collection building the importance of maintaining a high degree of local ownership for materials the principles criteria and tools needed to develop a Native American studies collection document driven and use driven approaches to collecting acquiring and preserving records that chronicle the role played by African Americans in the United States development Acquisitions and Collection Development in the Humanities can help professional librarians graduate school faculty and students in information and library science acquire the knowledge and skills necessary for building a broadly based and academically responsive collection It will certainly help you keep up with changes in the information environment and show you how the tools you ve developed for selecting traditional library materials will be useful as you grapple with electronic texts spider search mechanisms on the Web becoming a webliographer and budget shortfalls **Guide for Training Collection Development Librarians** American Library Association. Subcommittee on Guide for Training Collection Development Librarians, Susan L. Fales, Association for Library Collections & Technical Services. Administration of Collection Development Committee, 1996 Skillfully acquisitions and collection development plays a key role in creating exceptional libraries These authoritative resources provide the guidance you need to build and maintain the comprehensive high quality collection your customers demand Get expert advice on a selecting material from serial to CD ROMs b participating effectively in the budget

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Acquisition in Different and Special Subject Areas Abulfazal M. Fazle Kabir,2003 In this book you ll find profiles methods and processes for acquisitions in specialized subject areas such as local and regional poetry oceanography educational information in electronic formats popular fiction regional and ethnic materials and more Seasoned acquisitions librarians share their experiences in gathering the hard to find materials their libraries highly specialized clients need to access You ll also examine issues surrounding the acquisition of new reference tools that are vital in today s emerging electronic environment

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evaluation selection acquisition and weeding of information resources it is hoped that this work will also prove useful to non librarians possessing some kind of stake in high quality library holdings such as library board members politicians and administrators directly responsible for library operations and institutional patrons

CURRENT TRENDS IN LIBRARY AND INFORMATION SCIENCE Dr. Dinesh Kumar Kaushik, 2021-09-10 Prior to 1964 information scientists entered library schools they brought with them competencies in relation to information retrieval in subject databases Subject bibliographic databases and citation indexes provided a major step forward in information dissemination What is described here is a view of social fields as dynamic and changing LIS is viewed as a field that started as a multidisciplinary field based on literature psychology sociology management computer science etc which is developing towards an academic discipline in its own right As a field with its own body of interrelated concepts techniques journals and professional associations LIS is clearly a discipline But by the nature of its subject matter and methods LIS is just as clearly interdisciplinary drawing on many adjacent fields What is described here is a view of social fields as dynamic and changing Library and information science is viewed as a field that started as a multidisciplinary field based on literature psychology sociology management computer science etc which is developing towards an academic discipline in its own right The present research oriented book entitled Current Trends in Library and Information Science is devised with the sole intention to highlight modern libraries from different technical perspectives As such essays of varied nature pertaining to the library and information science are compiled in this volume The publication is meant for library professionals Contents Digital Research Tools in Library Analysis of Information Systems in Library Trends and Issues in Information Science Online Information Retrieval Main Elements of Electronic Libraries Guidelines for Software and System Selection Libraries and the Internet Electronic Technologies for Libraries Resource Sharing through Internet

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limitations of end user online services and an evaluation of the Library of Congress Information system Authoritative contributors make recommendations on how to design services to coordinate with the new technology and how to change librarians roles so they can assist people in using these systems

Selecting Materials for Library Collections Linda S Katz, 2012-12-06 Strategies and tools to help you plan build and maintain your library collection *Selecting Materials for Library Collections* takes you step by step through the process of planning building and maintaining a quality library collection This up to date guide addresses the interests and concerns of academic and public libraries with expert advice on budgets policies and planning The book examines print non print and Internet selection resources including the OCLC WorldCat Database and ACQNET L You ll find valuable information you can apply right away to help you keep any collection relevant and up to date *Selecting Materials for Library Collections* provides the tools you need to keep your library collection current Seasoned experts share their thoughts on how to analyze your users expectations and then provide them with the materials they need The contributors also examine the selection aids that they use in their own acquisitions work and then look at how to achieve a balanced collection that efficiently serves their clients needs Supplementary reading lists and extensive bibliographies provide you with additional resources *Selecting Materials for Library Collections* presents the latest information on using print non print and Internet selection resources such as OCLC WorldCat database and ACQNET L initial collection assessment and decision making collection tool evaluations acquiring international core titles the New Thought movement approval plans set up maintenance and evaluation the newest technology for media selection specialized library collections in music art business economics health sports leisure and more

Engineering Libraries Thomas W. Conkling, Linda R. Musser, 2014-04-23 Provide top flight services in this highly specialized field This groundbreaking book provides state of the art information on one of the most useful library specialties *Engineering Libraries Building Collections and Delivering Services* is designed for information professionals at all levels of expertise from new practitioners to specialists in science and engineering It shows how you can provide top notch service by designing programs around the genuine needs of the users Previous books in this field have generally covered only the engineering literature and databases However *Engineering Libraries* focuses on the practical aspects of providing user friendly information services in an engineering environment The suggestions and advice are eminently practical and designed for immediate usability It also reviews the state of scientific communication and progress toward digital libraries *Engineering Libraries* offers solid expertise on the fundamental issues of this branch of information science including establishing a collection innovative uses of the Web instructing users assessing services providing services to varied user populations *Engineering Libraries* is an essential resource for librarians in science technology and engineering programs It is also a valuable text for graduate students and faculty in library science

Information Sources in Women's Studies and Feminism Hope Olson, 2014-08-29 No detailed description available for *Information Sources in Women s Studies and Feminism*

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Thompson Klein,1990 In this volume Julie Klein provides the first comprehensive study of the modern concept of interdisciplinarity supplementing her discussion with the most complete bibliography yet compiled on the subject In this volume Julie Klein provides the first comprehensive study of the modern concept of interdisciplinarity supplementing her discussion with the most complete bibliography yet compiled on the subject Spanning the social sciences natural sciences humanities and professions her study is a synthesis of existing scholarship on interdisciplinary research education and health care Klein argues that any interdisciplinary activity embodies a complex network of historical social psychological political economic philosophical and intellectual factors Whether the context is a short ranged instrumentality or a long range reconceptualization of the way we know and learn the concept of interdisciplinarity is an important means of solving problems and answering questions that cannot be satisfactorily addressed using singular methods or approaches

Bibliography in Literature, Folklore, Language and Linguistics David William Foster,James R. Kelly,2003-02-11 While the academic world devoted to literary study has been absorbed with new and distinct forms of literary criticism bibliography has received scant attention much less than in former times when it was understood as more than just an aid to research Enormous changes have taken place in enumerative bibliography over the past thirty years especially with the widespread use of computers but these changes have gone unrecognized as bibliography has gone unappreciated This work is a collection of essays concentrating exclusively on bibliography and its uses in the academic world especially in literature folklore language and linguistics The book begins with a discussion of what bibliography is what it does and how to create the optimum bibliography Other subjects include bibliography and postcolonialism critical theory and bibliography in cross disciplinary environments issues and problems with tools for feminist and women s studies scholars in literature strategies for the incorporation of pluridisciplinary work bibliographical databases and databased bibliographies and ideas for the future of the MLA International Bibliography *Museum Librarianship, 2d ed.* Esther Green Bierbaum,2015-11-03 In this second edition to *Museum Librarianship* the author offers guidance in planning and providing information services in a museum beginning or revitalizing the library collection development and the bibliographic process technical services administration space and equipment requirements fundamental services extended information services and the information partnership between museums and their libraries The Internet and other electronic resources are fully covered The focus of this new edition has shifted slightly from mainly dealing with the start up aspects to an emphasis on the goals of library and information services in a museum and the processes through which such services can be achieved The author s underlying goal is to help enhance and enrich the encounter of the museum goer with enduring objects in a time when we all seem to be assailed on every side by random noise and flickering image *Women's Studies Serials* Kristin H Gerhard,2020-09-23 *Women s Studies Serials A Quarter Century of Development* examines the history growth and present status of women s studies collections available in the United States and around the world This text investigates the accessibility to women s

studies periodicals how they are used and by whom and identifies areas where further research is needed to help collection managers and librarians make the best selection decisions for their serials collections Women s Studies Serials will help you choose serials that meet the needs of your patrons and that comply with the limitations of your budget Offering you charts tables and statistical data Women s Studies Serials covers many topics that will help you build a thorough and accessible women s studies collection or renovate an existing collection including the problems influences and expectations involved in women s studies faculty s daily work with magazines and journals choosing the best CD Rom products for women s studies research based on cost coverage content and recommendations for acquisition techniques and insights for teaching cataloging in an interdisciplinary dynamic and evolving information environment examining academic women s studies serials on the World Wide Web and determining whether they are helpful to students and faculty suggestions that may alleviate the inadequacies of subject description and access to current periodical literature concerning African American women and Latinas in the United States how women s studies serials published in Ireland are adding support and recognition to the discipline of women s studies examining popular women s periodicals in the Popular Culture Collection at Bowling Green State University and how they help reveal and document the history of women s roles in society the management and collection methods of the International Centre and Archives of the Women s Studies Movement located in the Netherlands Providing you with information on how other academic libraries choose their collection material Women s Studies Serials will help you determine what journals in your library are most widely read and if they are meeting the informational and research needs of faculty and students The information in Women s Studies Serials will help make your women s studies serials current cost efficient and relevant to your patrons needs

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