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Issues for 1929- include section Contents noted (1929-1939 called Metallurgical abstracts; Jan. 1940- Sept. 1945 called Engineering digest; Oct. 1945-called Materials & methods digest) Annual indexes of the abstracts and digest were prepared 1929-1941; beginning in 1942, included in the complete index to the periodical.

CD-ROM contains: Dynamic phase diagram tool -- Over 30 animations of concepts from the text -- Photomicrographs from the text.

This Text Provides A Balanced And Current Treatment Of The Full Spectrum Of Engineering Materials, Covering All The Physical Properties, Applications And Relevant Properties Associated With The Subject. It Explores All The Major Categories Of Materials While Offering Detailed Examinations Of A Wide Range Of New Materials With High-Tech Applications.

Integrated computational materials engineering (ICME) is an emerging discipline that can accelerate materials development and unify design and manufacturing. Developing ICME is a grand challenge that could provide significant economic benefit. To help develop a strategy for development of this new technology area, DOE and DoD asked the NRC to explore its benefits and promises, including the benefits of a comprehensive ICME capability; to establish a strategy for development and maintenance of an ICME infrastructure, and to make recommendations about how best to meet these opportunities. This book provides a vision for ICME, a review of case studies and lessons learned, an analysis of technological barriers, and an evaluation of ways to overcome cultural and organizational challenges to develop the discipline.

This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.--Publisher's description.

Recycling and Reusing of Engineering Materials: Recycling for Sustainable Developments covers the latest research and developments in recycling and reusing processes, including new fundamental concepts, techniques, methods and process flows. The book provides applications of these novel technologies to recycling processes and analyzes new and modern ways of recycling techniques. It provides a comprehensive literature review on fundamental aspects of recycling processes, recycling goals, characterization of waste streams, legislative policies and evaluation, electronic recycling, aircraft recycling, recycling processes, energy savings and issues, environmental issues, societal issues, recycled materials, market development for

recycling, processing facilities, and awareness and importance of recycling safety. The book is an indispensable reference for researchers in academia and industry. Scientists can use this book for literature reviews and experimental details, and the industry can use its comprehensive detail for literature reviews and to upgrade their processes and systems. Provides the latest information on recycling and reusing processes Includes the results of laboratory experiments from the recycling of electronic waste, recycling of composites, and of aircraft and plastics Covers radioactive waste treatment and biological waste disposal Written by a team of authors with teaching and industrial experience

Smith/Hashemi's Foundations of Materials Science and Engineering, 5/e provides an eminently readable and understandable overview of engineering materials for undergraduate students. This edition offers a fully revised chemistry chapter and a new chapter on biomaterials as well as a new taxonomy for homework problems that will help students and instructors gauge and set goals for student learning. Through concise explanations, numerous worked-out examples, a wealth of illustrations & photos, and a brand new set of online resources, the new edition provides the most student-friendly introduction to the science & engineering of materials. The extensive media package available with the text provides Virtual Labs, tutorials, and animations, as well as image files, case studies, FE Exam review questions, and a solutions manual and lecture PowerPoint files for instructors.

Contains essays on food and material culture presented at the 2013 Oxford Symposium on Food and Cookery.

Vols. for Jan. 1896-Sept. 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society's Transactions. Beginning Oct. 1930, the Proceedings are limited to technical papers and discussions, while Civil engineering contains items relating to society activities, etc.

Information Sources in Science and Technology: A Practical Guide to Traditional and Online Use presents a selection of traditional and online methods of using information sources in science and technology, including people, organizations, literature, hosts, and databases. This text serves as a reference book that helps the reader choose sources of information and their guides, includes a routine for finding and using information, and offers tips on searching and obtaining literature in a usable form. This book is comprised of nine chapters and begins by explaining how to choose type(s) of information source that is likely to be most helpful. The chapters that follow present guides on people, organizations, and literature as sources of information. A chapter on information services focuses on those organizations that supply information or references to information that could be helpful. These services range from answering telephone queries to supplying collections of relevant documents, and from broadcast television information to direct connection with computer databases. The next chapters discuss ways of searching the literature and computer databases, obtaining literature in a usable form, and organizing and presenting information. This book concludes by considering current awareness or keeping up-to-date with information about recent developments. This monograph is intended for librarians and information officers, especially for those working in scientific or industrial environments, practicing scientists and engineers, and students associated with these professions.