



A broad coverage of basic & applied research projects dealing with the application of engineering principles to both food production & processing. Land and water use; Agricultural buildings; Agricultural mechanisation; Power & processing; Management & ergonomics. About 450 papers from over 50 countries worldwide.

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In our changing world, society demands more comprehensive and thoughtful solutions from environmental engineers, environmental consultants and scientists dealing with the degradation of our environment. Lead by Nelson Nemerow and Franklin Agardy, experts in business, academia, government and practice have been brought together in Environmental Solutions to provide guidance for these environmental professionals. The reader is presented with a variety of solutions to common and not so common environmental problems which lay the groundwork for environmental advocates to decide which solutions will work best for their particular circumstances. This book discusses chemical, biological, physical, forensic, medical, international, economic, political, industrial-collaborative solutions and solutions for rural and developing countries giving readers the freedom to evaluate a variety of options and make informed decisions. End of chapter questions and additional resources are included making this an invaluable teaching tool and ideal reference for those currently involved in improving and preserving our environment. Contributions by international experts in government, industry, and academia. Editors are recognized as the editors of Environmental Engineering, the best selling title published by John Wiley. The first action-oriented book for environmental engineers.

????:Software engineering economics

This book presents an authoritative collection of contributions reporting on fuzzy logic and decision theory, together with applications and case studies in economics and management science. Dedicated to Professor Jaume Gil Aluja in recognition of his pioneering work, the book reports on theories, methods and new challenges, thus offering not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike.

Full coverage of manufacturing and management in mechanical engineering Mechanical Engineers' Handbook, Fourth Edition provides a quick guide to specialized areas that engineers may encounter in their work, providing access to the basics of each and pointing toward trusted resources for further reading, if needed. The book's accessible information offers discussions, examples, and analyses of the topics covered, rather than the straight data, formulas, and calculations found in other handbooks. No single engineer can be a specialist in all areas that they are called upon to work in. It's a discipline that covers a broad range of topics that are used as the building blocks for specialized areas, including aerospace, chemical, materials, nuclear, electrical, and general engineering. This third volume of Mechanical Engineers' Handbook covers Manufacturing & Management, and provides accessible and in-depth access to the topics encountered regularly in the discipline: environmentally benign manufacturing, production planning, production processes and equipment, manufacturing systems evaluation, coatings and surface engineering, physical vapor deposition, mechanical fasteners, seal technology, statistical quality control, nondestructive inspection, intelligent control of material handling systems, and much more. Presents the most comprehensive coverage of the entire discipline of Mechanical Engineering Focuses on the explanation and analysis of the concepts presented as opposed to a straight listing of formulas and data found in other handbooks Offers the option of being purchased as a four-book set or as single books Comes in a subscription format through the Wiley Online Library and in electronic and other custom formats Engineers at all levels of industry, government, or private consulting practice will find Mechanical Engineers' Handbook, Volume 3 an "off-the-shelf" reference they'll turn to again and again.

It is widely accepted that technology is one of the forces driving economic growth. Although more and more new technologies have emerged, various evidence shows that their performances were not as high as expected. In both academia and practice, there are still many questions about what technologies to adopt and how to manage these technologies. The 15 articles in this book aim to look into these questions. There are quite many features in this book. Firstly, the articles are from both developed countries and developing countries in Asia, Africa and South and Middle America. Secondly, the articles cover a wide range of industries including telecommunication, sanitation, healthcare, entertainment, education, manufacturing, and financial. Thirdly, the analytical approaches are multi-disciplinary, ranging from mathematical, economic, analytical, empirical and strategic. Finally, the articles study both public and private organizations, including the service industry, manufacturing industry, and governmental organizations. Given its wide coverage and multi-disciplines, the book may be useful for both academic research and practical management.

Salient Features of the Book: Simple and lucid language Sequential arrangement of topics Review question after each chapter Interest calculation table Straight answers to 101 nagging questions

This book contains papers presented at the 11th Symposium of Computer Aided Process Engineering (ESCAPE-11), held in Kolding, Denmark, from May 27-30, 2001. The objective of ESCAPE-11 is to highlight the use of computers and information technology tools, that is, the traditional CAPE topics as well as the new CAPE topics of current and future interests. The main theme for ESCAPE-11 is process and tools integration with emphasis on hybrid processing, cleaner and efficient technologies (process integration), computer aided systems for modelling, design, synthesis, control (tools integration) and industrial case studies (application of integrated strategies). The papers are arranged in terms of the following themes: computer aided control/operations, computer aided manufacturing, process and tools integration, and new frontiers in CAPE. A total of 188 papers, consisting of 5 keynote and 183 contributed papers are included in this book.

This book creatively puts forward the subject nature, object, system, theory, method and application of technical economics, and brings together the research achievements of 50 years, especially the latest research results. It is of great significance for the development of China's technical and economic disciplines and the cultivation of special talents for technical and economic development. It is of great significance for the solution of major technical and economic problems in economic and social development, and has a landmark significance in the history of world technical economics. The book can be used as teaching material for both the liberal arts, science and engineering students within higher education institutions, and as a leading cadre training source for engineers. Furthermore, it can facilitate readers engaged in policy making, program planning, macro

