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Manufacturing Engineering Handbook, Second Edition National Academies Press

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

NASA Space Technology Roadmaps and Priorities The Business Year

Filling a longstanding gap for graduate courses in the field, *Chemical Reaction Engineering: Beyond the Fundamentals* covers basic concepts as well as complexities of chemical reaction engineering, including novel techniques for process intensification. The book is divided into three parts: Fundamentals Revisited, Building on Fundamentals, and Beyond the Fundamentals. Part I: Fundamentals Revisited reviews the salient features of an undergraduate course, introducing concepts essential to reactor design, such as mixing, unsteady-state operations, multiple steady states, and complex reactions. Part II: Building on Fundamentals is devoted to "skill building," particularly in the area of catalysis and catalytic reactions. It covers chemical thermodynamics, emphasizing the thermodynamics of adsorption and complex reactions; the fundamentals of chemical kinetics, with special emphasis on microkinetic analysis; and heat and mass transfer effects in catalysis, including transport between phases, transfer across interfaces, and effects of external heat and mass transfer. It also contains a chapter that provides readers with tools for making accurate kinetic

measurements and analyzing the data obtained. Part III: Beyond the Fundamentals presents material not commonly covered in textbooks, addressing aspects of reactors involving more than one phase. It discusses solid catalyzed fluid-phase reactions in fixed-bed and fluidized-bed reactors, gas–solid noncatalytic reactions, reactions involving at least one liquid phase (gas–liquid and liquid–liquid), and multiphase reactions. This section also describes membrane-assisted reactor engineering, combo reactors, homogeneous catalysis, and phase-transfer catalysis. The final chapter provides a perspective on future trends in reaction engineering.

2005 LexisNexis Corporate Affiliations Springer Nature NASA's Office of the Chief Technologist (OCT) has begun to rebuild the advanced space technology program in the agency with plans laid out in 14 draft technology roadmaps. It has been years since NASA has had a vigorous, broad-based program in advanced space technology development and its technology base has been largely depleted. However, success in executing future NASA space missions will depend on advanced technology developments that should already be underway. Reaching out to involve the external technical community, the National Research Council (NRC) considered the 14 draft technology roadmaps prepared by OCT and ranked the top technical challenges and highest priority technologies that NASA should emphasize in the next 5 years. This report provides specific guidance and recommendations on how the effectiveness of the technology development program managed by OCT can be enhanced in the face of scarce resources.

Computerworld CRC Press

Until now, anyone conducting industrial combustion tests had to either rely on old methods, go scurrying through the literature to find proven applicable methodologies, or hire top-shelf consultants such as those that

work for cutting-edge companies like John Zink. Manufacturers can no longer take industrial combustion for granted. Air and noise po D and B Million Dollar Directory Wolters Kluwer Law & Business The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time. How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity, quality, sustainability, reliability, agility, resilience, and best practices with rapid time to production and value? The answers are found in the fully updated new edition of *Manufacturing Engineering Handbook*. The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process—design, development, tools, processes, quality, speed, output, safety, and sustainability. You will gain access to information on conventional and modern technologies, manufacturing processes, and operations management that will assist you in achieving these goals. The book is written by a team of more than 100 internationally renowned manufacturing engineering experts, and pared down from its original 1200 pages. The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern, global manufacturing world. Brand-new chapters on: eco-design and sustainability; nano materials and nano manufacturing; facilities planning; operations research New sections on plastics, composites, and moldmaking; global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color illustrations, graphs, charts, discussions on future trends, additional technical papers, and suggestions for further reading

Signal National Academies Press

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Computerworld Edwards Information, LLC

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Introduction to Engineering Addison Wesley Publishing Company Too many organizations invest in performance management and business intelligence projects, without first establishing the needed conditions to ensure success. But the organizations that lay the groundwork for effective change first reap the benefits. In Profiles in Performance: Business Intelligence Journeys and the Road Map for Change, Howard Dresner (author of The Performance Management Revolution) worked with several extraordinary organizations to understand their thriving "performance-directed culture." In doing so, he developed a unique maturity model-which served as both a filter to select candidates and as a lens to examine accomplishments. Interviews with people from all sides of the organization: business users, finance, senior management and the IT department Provides a complete picture of their progress from inception to current state The models, analyses and real world accounts from these cases will be an invaluable resource to any organization hoping to improve or initiate

their own performance-directed culture.

ISA Directory of Automation John Wiley & Sons

The Business Year has charted the course of the Omani economy for a decade, and this year we focused on the Sultanate ' s diversification plan and its sustainability agenda. While the country is less hydrocarbons rich than its GCC neighbors, infrastructure and renewable energy development, as well as green hydrogen, could be driving forces for growth in the years to come. Both the public and private sectors closely follow the tenets of Vision 2040, a wide-ranging blueprint for growth the kind of which has become ubiquitous across the region. The Business Year: Oman 2023 features interviews, articles, and analysis over 185 pages.

Edwards Disaster Recovery Directory Artech House

In the United States, broad study in an array of different disciplines â € "arts, humanities, science, mathematics, engineering â € " as well as an in-depth study within a special area of interest, have been defining characteristics of a higher education. But over time, in-depth study in a major discipline has come to dominate the curricula at many institutions. This evolution of the curriculum has been driven, in part, by increasing specialization in the academic disciplines. There is little doubt that disciplinary specialization has helped produce many of the achievement of the past century. Researchers in all academic disciplines have been able to delve more deeply into their areas of expertise, grappling with ever more specialized and fundamental problems. Yet today, many leaders, scholars, parents, and students are asking whether higher education has moved too far from its integrative tradition towards an approach heavily rooted in disciplinary "silos". These "silos" represent what many see as an artificial separation of academic disciplines. This study reflects a growing concern that the approach to higher education that favors disciplinary specialization is poorly calibrated to the challenges and opportunities of our time. The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education examines the evidence behind the assertion that educational programs that mutually integrate learning experiences in the humanities and arts with science, technology, engineering, mathematics, and medicine (STEMM) lead to improved educational and career outcomes for undergraduate and graduate students. It explores evidence regarding the value of integrating more STEMM curricula and labs into the academic programs of students majoring in the humanities and arts and evidence regarding the value of integrating curricula and experiences in the arts and humanities into college and university STEMM education programs.

Official Gazette of the United States Patent and Trademark Office Wolters Kluwer Law & Business

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Directory CRC Press

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Engineering a Better Future

Over the past decade, integrated STEM education research has emerged as an international concern, creating around it an imperative for technological and disciplinary innovation and a global resurgence of interest in teaching and learning to code at the K-16 levels. At the same time, issues of democratization, equity, power and access, including recent decolonizing efforts in public education, are also beginning to be acknowledged as legitimate issues in STEM education. Taking a reflexive approach to the intersection of these concerns, this book presents a collection of papers making new theoretical advances addressing two broad themes: Transdisciplinary Approaches in STEM Education and Bodies, Hegemony and Decolonization in STEM Education. Within each theme, praxis is of central concern including analyses of teaching and learning that re-imagines disciplinary boundaries and domains, the relationship between Art and STEM, and the design of learning technologies, spaces and environments. In addition to graduate research seminars at the Masters and PhD levels in Learning Sciences, Science Education, Educational Technology and STEM education, this book could also serve as a textbook for graduate and pre-service teacher education courses.

Illinois Services Directory

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D & B Consultants Directory

This open access book examines how the social sciences can be integrated into the praxis of engineering and science, presenting unique perspectives on the interplay between engineering and

social science. Motivated by the report by the Commission on Humanities and Social Sciences of the American Association of Arts and Sciences, which emphasizes the importance of social sciences and Humanities in technical fields, the essays and papers collected in this book were presented at the NSF-funded workshop ‘ Engineering a Better Future: Interplay between Engineering, Social Sciences and Innovation ’ , which brought together a singular collection of people, topics and disciplines. The book is split into three parts: A. Meeting at the Middle: Challenges to educating at the boundaries covers experiments in combining engineering education and the social sciences; B. Engineers Shaping Human Affairs: Investigating the interaction between social sciences and engineering, including the cult of innovation, politics of engineering, engineering design and future of societies; and C. Engineering the Engineers: Investigates thinking about design with papers on the art and science of science and engineering practice.

Chemical Reaction Engineering

Profiles in Performance

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Industrial Combustion Testing