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| Twin-Control | Mikel Armendia - 2019-01-05 |
This open access book summarizes the results of the European research project “Twin-model based virtual manufacturing for machine tool-process simulation and control” (Twin-Control). The first part reviews the applications of ICTs in machine tools and manufacturing, from a scientific and industrial point of view, and introduces the Twin-Control approach, while Part 2 discusses the development of a digital twin of machine tools.
The third part addresses the monitoring and data management infrastructure of machines and manufacturing processes and numerous applications of energy monitoring. Part 4 then highlights various features developed in the project by combining the developments covered in Parts 3 and 4 to control the manufacturing processes applying the so-called CPSs. Lastly, Part 5 presents a complete validation of Twin-Control features in two key industrial sectors: aerospace and automotive. The book offers a representative overview of the latest trends in the manufacturing industry, with a focus on machine tools.

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**Sicherheit, Zuverlässigkeit und Verfügbarkeit von Maschinen, Geräten und Anlagen mit Ventilen** - Gerhard H. Schlick - 2001

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**Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen** - - 2004

**Glocalized Solutions for Sustainability in Manufacturing** - Jürgen Hesselbach - 2011-03-19
The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment, product development, sustainable manufacturing and end-of-life-management. The theme “Glocalized Solutions for Sustainability in Manufacturing” addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products, services and processes taking into account local capabilities and constraints to achieve an economically, socially and environmentally sustainable society in a global perspective. Glocalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions. Products and services need to be addressed that ensure a high standard of living everywhere. Resources required for manufacturing and use of such products are limited and not evenly distributed in the world. Locally available resources, local capabilities as well as local constraints have to be drivers for product- and process innovations with respect to the entire life cycle. The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas.

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**Condition Monitoring and Control for Intelligent Manufacturing** - Lihui Wang - 2006-08-02
Condition modelling and control is a technique used to enable decision-making in manufacturing processes of interest to researchers and practising engineering. Condition Monitoring and Control for Intelligent Manufacturing will be bought by researchers and graduate students in manufacturing and control and engineering, as well as practising engineers in industries such as automotive and packaging manufacturing.

**Metal Failures** - A. J. McEvily - 2002
Comprehensive coverage of both the "how" and "why" of metal failures Metal Failures gives engineers the intellectual tools and practical understanding needed to analyze failures from a structural point of view. Its proven methods of examination and analysis enable investigators to: * Reach correct, fact-based conclusions on the causes of metal failures * Present and defend these conclusions before highly critical bodies * Suggest design improvements that may prevent future failures Analytical methods presented include stress analysis, fracture mechanics, fatigue analysis, corrosion science, and nondestructive testing. Numerous case studies illustrate the application of basic principles of metallurgy and failure analysis to a wide variety of real-world situations. Readers learn how to investigate and analyze failures that involve: * Alloys and coatings * Brittle and ductile fractures * Thermal and residual stresses * Creep and fatigue * Corrosion, hydrogen embrittlement, and stress-corrosion cracking This useful professional reference is also an excellent learning tool for senior-level students in mechanical, materials, and civil engineering.
history, evolution, design and manufacture of these industry giants. Packed full of top-quality archival photographs, most taken from manufacturer archives.

**Giant Earthmovers** - Keith Haddock - 1998
A comprehensive review of earthmoving and construction equipment from the birth of primitive industrial tools to today's awe-inspiring machines! The biggest haulers, dozers, scrapers and unusual specialty equipment in the field are presented here in over 500 black-and-white photographs. The author's expertly written text details machine categories and discusses the history, evolution, design and manufacture of these industry giants. Packed full of top-quality archival photographs, most taken from manufacturer archives.

**Hochschmelzende Metalle** - Friedrich Benesovsky - 1959

**Modern Control Systems** - Richard C. Dorf - 2011
Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

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**Friction and Wear of Materials** - Ernest Rabinowicz - 1995

Friction and Wear of Materials Second Edition Written by one of the world’s foremost authorities on friction, this classic book offers a lucid presentation of the theory of mechanical surface interactions as it applies to friction, wear, adhesion, and boundary lubrication. To aid engineers in design decisions, Friction and Wear of Materials evaluates the properties of materials which, under specified conditions, cause one material to function better as a bearing material than another. Featured also are thorough treatments of lubricants and the sizes and shapes of wear particles. This updated Second Edition includes new material on erosive wear, impact wear, and friction. Professor Rabinowicz’s book will be especially welcomed by mechanical and design engineers, surface scientists, tribologists and others who design, produce and operate products, machines and equipment which involve friction and its effects.

**Renewable** - Jeremy Shere - 2013-11-26

Where does the energy we use come from? It's absolutely vital to every single thing we do every day, but for most people, it is utterly invisible. Flick a switch and the lights go on. It might as well be magic. Science writer Jeremy Shere shows us in Renewable: The World-Changing Power of Alternative Energy that energy is anything but magical. Producing it in fossil fuel form is a dirty, expensive—but also hugely profitable—enterprise, with enormous but largely hidden costs to the entire planet. The cold, hard fact is that at some point we will have wrung the planet dry of easily accessible sources of fossil fuel. And when that time comes, humankind will have no choice but to turn—or, more accurately, return—to other, cleaner, renewable energy sources. What will those sources be? How far have we come to realizing the technologies that will make these sources available? To find the answers, Shere began his journey with a tour of a traditional coal-fueled power plant in his home state of Indiana. He then continued on, traveling from coast to coast as he spoke to scientists, scholars and innovators. He immersed himself in the green energy world: visiting a solar farm at Denver’s airport, attending the Wind Power Expo and a wind farm tour in Texas, investigating turbines deep in New York City’s East River, and much more. Arranged in five parts—Green Gas, Sun, Wind, Earth, and Water—Renewable tells the stories of the most interesting and promising types of renewable energy: namely, biofuel, solar, wind, geothermal, and hydropower. But unlike many books about alternative energy, Renewable is not obsessed with megawatts and tips for building home solar panels. Instead, Shere digs into the rich, surprisingly long histories of these technologies, bringing to life the pioneering scientists, inventors, and visionaries who blazed the way for solar, wind, hydro, and other forms of renewable power, and unearthing the curious involvement of great thinkers like Henry Ford, Thomas Edison, and Nicola Tesla. We are at an important crossroads in the history of renewable technologies. The possibilities are endless and enticing, and it has become increasingly clear that renewable energy is the way of the future. In Renewable, Jeremy Shere’s natural
curiosity and serious research come together in an entertaining and informative guide to where renewable energy has been, where it is today, and where it's heading.

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reference material that incorporates new programming styles with classic and new algorithms, you will find a wealth of useful information in this book.

**Algorithms in Java, Parts 1-4** - Robert Sedgewick - 2002-07-23
This edition of Robert Sedgewick's popular work provides current and comprehensive coverage of important algorithms for Java programmers. Michael Schidlowsky and Sedgewick have developed new Java implementations that both express the methods in a concise and direct manner and provide programmers with the practical means to test them on real applications. Many new algorithms are presented, and the explanations of each algorithm are much more detailed than in previous editions. A new text design and detailed, innovative figures, with accompanying commentary, greatly enhance the presentation. The third edition retains the successful blend of theory and practice that has made Sedgewick's work an invaluable resource for more than 400,000 programmers! This particular book, Parts 1-4, represents the essential first half of Sedgewick's complete work. It provides extensive coverage of fundamental data structures and algorithms for sorting, searching, and related applications. Although the substance of the book applies to programming in any language, the implementations by Schidlowsky and Sedgewick also exploit the natural match between Java classes and abstract data type (ADT) implementations. Highlights Java class implementations of more than 100 important practical algorithms Emphasis on ADTs, modular programming, and object-oriented programming Extensive coverage of arrays, linked lists, trees, and other fundamental data structures Thorough treatment of algorithms for sorting, selection, priority queue ADT implementations, and symbol table ADT implementations (search algorithms) Complete implementations for binomial queues, multiway radix sorting, randomized BSTs, splay trees, skip lists, multiway tries, B trees, extendible hashing, and many other advanced methods Quantitative information about the algorithms that gives you a basis for comparing them More than 1,000 exercises and more than 250 detailed figures to help you learn properties of the algorithms Whether you are learning the algorithms for the first time or wish to have up-to-date reference material that incorporates new programming styles with classic and new algorithms, you will find a wealth of useful information in this book.

**Textbook of Electrochemistry** - Gustav Kortüm - 1951

**Continuum Mechanics and Theory of Materials** - Peter Haupt - 2013-03-14
The new edition includes additional analytical methods in the classical theory of viscoelasticity. This leads to a new theory of finite linear viscoelasticity of incompressible isotropic materials. Anisotropic viscoplasticity is completely reformulated and extended to a general constitutive theory that covers crystal plasticity as a special case.

**Introduction to Structured Finance** - Frank J. Fabozzi - 2007-01-09
Created by the experienced author team of Frank Fabozzi, Henry Davis, and Moorad Choudhry, Introduction to Structured Finance examines the essential elements of this discipline. It is a convenient reference guide—which covers all the important transaction types in one place—and an excellent opportunity to enhance your understanding of finance.
Fracture at High Temperatures - Hermann Riedel - 2014-01-13

Mining Subsidence Engineering - H. Kratzsch - 2012-12-06
This book originally appeared in German in 1974, under the title "Bergschadenkunde" (mining subsidence engineering), and then in Russian in 1978, published by Nedra of Moscow. When the German edition was almost out of print, Springer-Verlag decided to bring out a new edition, this time in English. For this English version the text has been thoroughly revised, enlarged, and sup plemented by over 100 new figures. The book deals with the current state of international know ledge on strata and ground movement over mine workings, with its damaging effects on mine shafts and the land surface, and with measures for regulating mining damage in law and reducing it in practice. Discussion begins with the mine excavation underground - the cause - and ends with the damage to surface structure- the effect. Methods of roof control, including the subject of rock bursts, are not discussed, since that is a field concerned more with the safety of underground workings than with minimizing damage at the surface. Of the 500 literature references in the German edition, only the more important for an international readership have been retained, but no value judgement on the many publications not mentioned should be read into this. The book is principally intended as a working aid for the mine surveyor, the mining engineer, the architect, and the civil engineer. For the student and the post-graduate researcher, it of fers a summary and guide to this whole field of knowledge.

Informatik 1 - Friedrich L. Bauer - 1991-01-23
"This is the latest in a series of proceedings of conferences on the Mathematical Foundations of Programming Semantics. The purpose of the series is to bring together mathematicians and theoretical computer scientists who share the common interests of working on problems related to programming language semantics. The purpose of the book is to bring into print as quickly as possible papers which reflect the state of research on the topics comprising this area. The intended audience for the book consists of those researchers and graduate students with an interest in the research areas which are related to those presented in the book: programming language semantics, including algebraic, denotational and operational semantics, logics of programs, specification techniques, etc., and the relevant areas of mathematics research, including category theory, domain theory, ordered structures and lattice theory, and metric space methods. The papers included in the book represent the latest results in various facets of this rather broad research area, and this is the first time some of the ideas contained in these works are appearing in print."-- PUBLISHER'S WEBSITE.
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Agglomeration Processes - Wolfgang B. Pietsch - 2008-07-11
Agglomeration is integral to the processes of modification of powders, production of composites and creation of new materials which are required in pharmaceuticals, foods, chemicals, fertilizers and agrochemicals, minerals, ceramics, metallurgy and all material producing industries. The binding mechanisms and the particle behavior as well as the characteristics of the processes and the resulting agglomerates are the same whether they are occurring in the 'ultra-clean' pharmaceutical or food industries or in 'dirty' minerals or waste processing plants. The book introduces the interdisciplinary approach to the development of new concepts and the solution of problems. It is a complete and up-to-date practical guide describing the various agglomeration phenomena and industrial techniques for size enlargement. In addition to introducing the properties of agglomerates and the characteristics of the different methods, descriptions of the machinery and discussions of specific equipment features are the main topics. The detailed evaluation of the subject is based on the authors experience as student, researcher, teacher, developer, designer, vendor, and user as well as expert and consultant in the field of agglomeration, its technologies and products, and is complemented by the know-how of colleagues who are active in specific areas and information from vendors. It is intended for everybody working in industries that process and handle particulate solids as it aims to help understand and control unwanted agglomeration as well as use, improve, and develop methods for the beneficial size enlargement by agglomeration.

Fracture Mechanics - Dietmar Gross - 2011-07-03
- self-contained and well illustrated - complete and comprehensive derivation of mechanical/mathematical results with emphasis on issues of practical importance - combines classical subjects of fracture mechanics with modern topics such as microheterogeneous materials, piezoelectric
emphasize on SAP R/3, real-world examples of standard software solutions complete derivations of results

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**ARIS - Business Process Frameworks** - August-Wilhelm Scheer - 2012-12-06  
ARIS (Architecture of Integrated Information Systems) is a unique and internationally renowned method for optimizing business processes and implementing application systems. This book enhances the proven ARIS concept by describing product flows and explaining how to classify modern software concepts. The importance of the link between business process organization and strategic management is stressed. Bridging the gap between the different approaches in business theory and information technology, the ARIS concept provides a full-circle approach from the organizational design of business processes to IT implementation. With an emphasis on SAP R/3, real-world examples of standard software solutions illustrate these business process frameworks.

**Dynamics of Multibody Systems** - Giovanni Bianchi - 2012-12-06  
illustrate these business process frameworks.

**Elastic-Plastic Fracture** - C. F. Shih - 1983

The job of any reservoir engineer is to maximize production from a field to obtain the best economic return. To do this, the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of future development and production that will maximize the profit. Fluid flow, rock properties, water and gas coning, and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right, and some of the tools of the trade are water influx calculations, lab tests of reservoir fluids, and oil and gas performance calculations. Two new chapters have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry: Principles of Waterflooding, Vapor-Liquid Phase Equilibria.

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A first Symposium on Dynamics of Multibody Systems was held August 29
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the dynamics of multibody systems, a discipline rendering essential services to
the fields of robotics, biomechanics, spacecraft control, road and rail vehicle
design, and dynamics of machinery. Therefore, the International Union of
Theoretical and Applied Mechanics (IUTAM) has initiated and sponsored, in
cooperation with the International Federation for Theory of Machines and
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Material Data of High-strength Aluminium Alloys for Durability
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Sliding Friction - Bo N.J. Persson - 2013-03-14
Sliding friction is one of the oldest problems in physics and certainly one of
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Environmental Management - Michael V. Russo - 1999
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Nuclear Decommissioning - Michele Laraia - 2012-02-21
Once a nuclear installation has reached the end of its safe and economical operational lifetime, the need for its decommissioning arises. Different strategies can be employed for nuclear decommissioning, based on the evaluation of particular hazards and their attendant risks, as well as on the analysis of costs of clean-up and waste management. This allows for decommissioning either soon after permanent shutdown, or perhaps a long time later, the latter course allowing for radioactivity levels to drop in any activated or contaminated components. It is crucial for clear processes and best practices to be applied in decommissioning such installations and sites, particular where any significant health and environmental risks exist. This book critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities. Part one focuses on the fundamental planning issues in starting a nuclear decommissioning process, from principles and safety regulations, to financing and project management. Part two covers the execution phase of nuclear decommissioning projects, detailing processes and technologies such as dismantling, decontamination, and radioactive waste management, as well as environmental remediation, site clearance and reuse. Finally, part three details international experience in the decommissioning of nuclear applications, including the main nuclear reactor types and nuclear fuel cycle facilities, as well as small nuclear facilities and legacy nuclear waste sites. Critically reviews nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Discusses the fundamental planning issues in starting a nuclear decommissioning process Considers the execution phase of nuclear decommissioning projects, including dismantling, decontamination, and radioactive waste management, as well as environmental remediation, site clearance and reuse