

Maschinenbau Ein Lehrbuch Fur Das Ganze Bachelor

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Career Express: Business English C1 - Jane Maier-Fairclough 2013-03-01

Career Express Level C1 Teacher's Book Career Express Business English C1 is the second part of a two-level multimedia course, for students on a Business English language course at university level. Reading -The texts focus on the most interesting topics from the world of business. They provide the springboard for a discussion of contemporary business issues. Listening -Realistic conversations, presentations and lectures expose you to a variety of native and non-native speaker accents and help you to develop core listening comprehension skills. Business Skills -This section introduces you to the skills most needed in business, such as taking part in meetings, using diplomacy at work, describing charts and presenting products. Discussion and Role-Play -These features give you the opportunity to pick up on issues raised in the reading and listening sections, and to practise functional language. Company Case -These task-based case studies have been inspired by real business scenarios. They require you to work in teams, find

strategic solutions to real-life problems and present them to the class. Audio CDs -Complete recordings for all the listening activities in the Course Book. Career Express Self Study Online -This website offers an abundance of additional material: Electronic Workbook with interactive practice exercises to consolidate vocabulary, grammar, reading and skills Self-assessment tests for each unit Tailor-made videos with interactive exercises The complete Course Book listening material as MP3 downloads

Raman Scattering in Materials Science - Willes H. Weber 2013-04-18

Raman scattering is now being applied with increasing success to a wide range of practical problems at the cutting edge of materials science. The purpose of this book is to make Raman spectroscopy understandable to the non-specialist and thus to bring it into the mainstream of routine materials characterization. The book is pedagogical in approach and focuses on technologically important condensed-matter systems in which the specific use of Raman spectroscopy yields new and useful

information. Included are chapters on instrumentation, bulk semiconductors and alloys, heterostructures, high-Tc superconductors, catalysts, carbon-based materials, wide-gap and super-hard materials, and polymers.

Handbook of Technical Diagnostics - Horst Czichos
2013-01-11

This book presents concepts, methods and techniques to examine symptoms of faults and failures of structures, systems and components and to monitor functional performance and structural integrity. The book is organized in five parts. Part A introduces the scope and application of technical diagnostics and gives a comprehensive overview of the physics of failure. Part B presents all relevant methods and techniques for diagnostics and monitoring: from stress, strain, vibration analysis, nondestructive evaluation, thermography and industrial radiology to computed tomography and subsurface microstructural analysis. Part C covers the principles and concepts of technical failure analysis, illustrates case studies, and outlines machinery diagnostics with an emphasis on tribological systems. Part D describes the application of structural health monitoring and performance control to plants and the technical infrastructure, including buildings, bridges, pipelines, electric power stations, offshore wind structures, and railway systems. And finally, Part E is an excursion on diagnostics in arts and culture. The book integrates knowledge of basic sciences and engineering disciplines with contributions from research institutions, academe, and industry, written by internationally known experts from various parts of the world, including Europe, Canada, India, Japan, and USA.

Hardcore Programming for Mechanical Engineers - Angel Sola Orbaiceta 2021-06-22

Hardcore Programming for Mechanical Engineers is for intermediate programmers who want to write good applications that solve tough engineering problems – from scratch. This book will teach you how to solve engineering problems with Python. The “hardcore” approach means that you will learn to get the correct results by coding everything from scratch. Forget relying on third-party software – there are no shortcuts on the path to proficiency. Instead, using familiar concepts from linear algebra, geometry and physics, you’ll write your own libraries, draw your own primitives, and build your own applications. Author Angel Sola covers core programming techniques mechanical engineers need to know, with a focus on high-quality code and automated unit testing for error-free implementations. After basic primers on Python and using the command line, you’ll quickly develop a geometry toolbox, filling it with lines and shapes for diagramming problems. As your understanding grows chapter-by-chapter, you’ll create vector graphics and animations for dynamic simulations; you’ll code algorithms that can do complex numerical computations; and you’ll put all of this knowledge together to build a complete structural analysis application that solves a 2D truss problem – similar to the software projects conducted by real-world mechanical engineers. You’ll learn:

- How to use geometric primitives, like points and polygons, and implement matrices
- Best practices for clean code, including unit testing, encapsulation, and expressive names
- Processes for drawing images to the screen and creating animations inside Tkinter’s Canvas widget
- How to write programs that read from a file, parse the data, and produce vector images
- Numerical methods for solving large systems of linear

equations, like the Cholesky decomposition algorithm
CFI - 1995

Materials Science and Engineering - William D. Callister
1991

Springer Handbook of Mechanical Engineering - Karl-
Heinrich Grote 2020-12-09

This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

Harry the Prairie Dog - Amanda Gregory 2021-07-05

Harry the Prairie Dog is a heartwarming story about three prairie dogs who set out on an adventure to learn to become REAL dogs in order to convince a grumpy farmer to let them stay on their prairie. They get advice from some kind friends along the way and, after a surprising turn of events, realize that maybe being a prairie dog isn't so bad after all. With enjoyable rhymes and lighthearted illustrations this story is a reminder to always be yourself.

Learning Disabilities and Brain Function - William H. Gaddes 1994

This revised textbook, now co-authored by an eminent child neuropsychologist, combines a well-developed theoretical orientation with practical, remedial suggestions and includes helpful, pertinent case studies to effectively illustrate the neuropsychological

principles. A new chapter on "Attention Deficit Disorder" has been added. As with the two previous editions, this one follows the tradition of providing a highly integrated, multi-disciplinary approach to learning disabilities in adults and children. From the reviews of the first edition: "William Gaddes has attempted and...accomplished a very difficult task - that of communicating the complex assortment of neuropsychological research and evidence on learning disorders so that professionals in various disciplines can make use of such information in their daily practice..." #Journal of Learning Disabilities#1

Fundamentals of Tractor Design - Karl Theodor Renius
2019-10-28

This textbook offers a comprehensive review of tractor design fundamentals. Discussing more than hundred problems and including about six hundred international references, it offers a unique resource to advanced undergraduate and graduate students, researchers and also practical engineers, managers, test engineers, consultants and even old-timer fans. Tractors are the most important pieces of agricultural mechanization, hence a key factor of feeding the world. In order to address the educational needs of both less and more developed countries, the author included fundamentals of simple but proved designs for tractors with moderate technical levels, along with extensive information concerning modern, premium tractors. The broad technical content has been structured according to five technology levels, addressing all components. Relevant ISO standards are considered in all chapters. The book covers historical highlights, tractor project management (including cost management), traction mechanics, tires (including inflation control), belt ground drives, and

ride dynamics. Further topics are: chassis design, diesel engines (with emission limits and installation instructions), all important types of transmissions, topics in machine element design, and human factors (health, safety, comfort). Moreover, the content covers tractor-implement management systems, in particular ISOBUS automation and hydraulic systems. Cumulative damage fundamentals and tractor load spectra are described and implemented for dimensioning and design verification. Fundamentals of energy efficiency are discussed for single tractor components and solutions to reduce the tractor CO2 footprint are suggested.

Work Motivation in the Context of A Globalizing Economy
- Miriam Erez 2012-12-06

Work Motivation in the Context of a Globalizing Economy evolved from a work motivation conference held in Israel, attended by a group of internationally renowned scholars. These scholars were given the charge of creating a vision of motivation research for the 21st century. Coming from different parts of the world, the scholars represent a wide range of perspectives from the very micro focus on the individual level of motivation, through the meso level of groups and organizations, and up to the macro level of culture. The authors provide an entry to the book by summarizing several mega-trends manifest across all of the chapters and identifying several emerging trends that are left for future research.

Media and Convergence Management - Sandra Diehl
2013-05-24

Convergence has gained an enormous amount of attention in media studies within the last several years. It is used to describe the merging of formerly distinct functions, markets and fields of application, which has

changed the way companies operate and consumers perceive and process media content. These transformations have not only led business practices to change and required companies to adapt to new conditions, they also continue to have a lasting impact on research in this area. This book's main purpose is to shed some light on crucial phenomena of media and convergence management, while also addressing more specific issues brought about by innovations related to media, technologies, industries, business models, consumer behavior and content management. This book gathers insights from renowned academic researchers and pursues a highly interdisciplinary approach. It will serve as a valuable reference guide for students, practitioners and researchers interested in media convergence processes.

Heat Transfer - Peter Böckh 2011-10-12

The book provides an easy way to understand the fundamentals of heat transfer. The reader will acquire the ability to design and analyze heat exchangers. Without extensive derivation of the fundamentals, the latest correlations for heat transfer coefficients and their application are discussed. The following topics are presented - Steady state and transient heat conduction - Free and forced convection - Finned surfaces - Condensation and boiling - Radiation - Heat exchanger design - Problem-solving After introducing the basic terminology, the reader is made familiar with the different mechanisms of heat transfer. Their practical application is demonstrated in examples, which are available in the Internet as MathCad files for further use. Tables of material properties and formulas for their use in programs are included in the appendix. This book will serve as a valuable resource for both students and engineers in the industry. The author's experience

indicates that students, after 40 lectures and exercises of 45 minutes based on this textbook, have proved capable of designing independently complex heat exchangers such as for cooling of rocket propulsion chambers, condensers and evaporators for heat pumps.

Schaum's Outline of Theory and Problems of Operations Research - Richard Bronson 1982

Confusing Textbooks? Missed Lectures? Not Enough Time? . Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. . . This Schaum's Outline gives you. . Practice problems with full explanations that reinforce knowledge. Coverage of the most up-to-date developments in your course field. In-depth review of practices and applications. . . Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores!. . Schaum's Outlines-Problem Solved..

Human Factors in the Chemical and Process Industries - Janette Edmonds 2016-09-17

Human Factors in the Chemical and Process Industries: Making it Work in Practice is a comprehensive overview of human factors within this sector, focusing on the practical application. It has been written by acknowledged industry experts from the Keil Centre, which is a leading practice of chartered ergonomics and human factors specialists, chartered safety specialists, registered occupational psychologists, and registered

clinical psychologists. The book was inspired by the international human factors training course run by the Keil Centre with the IChemE, which has reached four continents across the world. The book is written for those who want a comprehensive overview of the subject, focusing on the practical application of human factors. It has been written for safety professionals, engineers and operational disciplines within industry, and those aspiring to these disciplines, who either deal with human factors issues or any aspect of the 'human element' in their core role. The book explains what 'human factors' is about and how human factors issues are best managed from a practical perspective. It will help readers develop a greater understanding of the area and how to establish more effective solutions for human factors related issues. Provides comprehensive coverage of the most relevant human factors within this sector, with succinct overviews of each topic Uses case studies and practical examples to illustrate topics and explains the material in a fully accessible, easy to understand style Written by a single team of eleven industry practitioners, drawing on the combined expertise of different human factors specialisms which are rarely comprehensively combined in a single resource

The Site Reliability Workbook - Betsy Beyer 2018-07-25

In 2016, Google's Site Reliability Engineering book ignited an industry discussion on what it means to run production services today—and why reliability considerations are fundamental to service design. Now, Google engineers who worked on that bestseller introduce The Site Reliability Workbook, a hands-on companion that uses concrete examples to show you how to put SRE principles and practices to work in your environment. This new workbook not only combines practical examples

from Google's experiences, but also provides case studies from Google's Cloud Platform customers who underwent this journey. Evernote, The Home Depot, The New York Times, and other companies outline hard-won experiences of what worked for them and what didn't. Dive into this workbook and learn how to flesh out your own SRE practice, no matter what size your company is. You'll learn: How to run reliable services in environments you don't completely control—like cloud Practical applications of how to create, monitor, and run your services via Service Level Objectives How to convert existing ops teams to SRE—including how to dig out of operational overload Methods for starting SRE from either greenfield or brownfield

Brockhaus' kleines konversations-lexikon ... - Friedrich Arnold Brockhaus 1906

European Company Law - Andrea Vicari 2021-03-08

The book provides students of European company law courses, scholars and practitioners with an overview. Although company law remains mainly regulated at the level of national laws, it has become important to obtain a systematic view of the main directives in the field of company law, the EU Court of Justice's jurisprudence, the European Model Company Act and the state of implementation of these directives in the member states of the Union. The book therefore contains, in addition to the illustration of the law laid down by EU legislative bodies and the related soft laws, detailed references to the most important domestic legislations and case laws, in order to make them known and usable as much as possible. Moreover, the book allows identifying the most relevant current legislative trends and the main historical reasons for divergences.

Learning UML 2.0 - Russ Miles 2006-04-25

With its clear introduction to the Unified Modeling Language (UML) 2.0, this tutorial offers a solid understanding of each topic, covering foundational concepts of object-orientation and an introduction to each of the UML diagram types.

Maschinenbau - Werner Skolaut 2018-08-13

„Alles aus einer Hand“; Dieses vierfarbige Lehrbuch bietet in einem Band ein lebendiges Bild des gesamten Maschinenbaus. Studierende finden das im Bachelor-Studium behandelte Wissen ausführlich und anhand vieler Beispiele erklärt. Im Mittelpunkt steht das Verständnis der Zusammenhänge zwischen den Fachgebieten. Herausragende Merkmale sind: - Alle Grundlagenfächer in einem Band - Vierfarbiges Layout mit mehr als 1500 Abbildungen - Ein Leitbeispiel führt durch das gesamte Buch - Übersichtsboxen verdeutlichen Zusammenhänge und Methoden - Verständnisfragen ermöglichen die Lernkontrolle beim Lesen - Farbige Merkkästen heben das Wichtigste hervor - Jedes Kapitel enthält Rechenaufgaben und Kurzlösungen - Anwendungs- und Beispielboxen erklären schwierige Themen - Vertiefungsboxen erläutern Hintergründe - Bonusmaterial auf der Homepage Inhaltlich spannt sich der Bogen von der Technischen Mechanik über die Thermodynamik und Strömungslehre, die Werkstoffkunde, die Maschinenelemente und die Fertigungstechnik bis hin zur Elektrotechnik und Regelungstechnik. In der zweiten Auflage wurden; zukunftsweisende Themen wie geometrische Produktspezifikationen, additive Fertigungstechniken, Industrie 4.0 und Energiespeicher erweitert und weitere Aufgaben aufgenommen. Auf der Homepage zum Buch sind die Lösungen zu den Rechenaufgaben und das Bonusmaterial zu finden. „Das Lehrbuch Maschinenbau begeistert durch

seine vielen Abbildungen, aktuellen Beispiele und lebendigen Formulierungen. Der rote Faden in Form des Antriebsstranges eines modernen Automobils sowie die aufeinander abgestimmten Verständnisfragen und Vertiefungsboxen machen das Buch zu einer angenehmen Lektüre. Hier wird deutlich, dass beim Leser Interesse geweckt und er spielerisch an die Lehrthemen herangebracht wird.“ Prof. Dr.-Ing. P.U. Thamsen, TU Berlin

Englisch für Maschinenbauer - Ariacutty Jayendran 2007

Changeable and Reconfigurable Manufacturing Systems - Hoda A. ElMaraghy 2008-11-23

“Changeable and Reconfigurable Manufacturing Systems” discusses key strategies for success in the changing manufacturing environment. Changes can often be anticipated but some go beyond the design range, requiring innovative change enablers and adaptation mechanisms. The book presents the new concept of Changeability as an umbrella framework that encompasses paradigms such as agility, adaptability, flexibility and reconfigurability. It provides the definitions and classification of key terms in this new field, and emphasizes the required physical/hard and logical/soft change enablers. The book presents cutting edge technologies and the latest research, as well as future directions to help manufacturers stay competitive. It contains original contributions and results from senior international experts, together with industrial applications. The book serves as a comprehensive reference for professional engineers, managers, and academics in manufacturing, industrial and mechanical engineering.

Tagungsband des 2. Kongresses Montage Handhabung

Industrieroboter - Thorsten Schüppstuhl 2017-06-16
Der MHI e.V. ist ein Netzwerk leitender Universitätsprofessoren aus dem deutschsprachigen Raum, die sowohl grundlagenorientiert als auch anwendungsnah in der Montage, Handhabung und Industrierobotik erfolgreich forschend tätig sind. Die Gründung der Gesellschaft erfolgte im Frühjahr 2012. Der MHI e.V. hat derzeit 20 Mitglieder, die über ihre Institute und Lehrstühle zurzeit ca. 1.000 Wissenschaftler repräsentieren. Die übergeordnete Zielsetzung des MHI e.V. ist die Förderung der Zusammenarbeit von deutschsprachigen Wissenschaftlerinnen und Wissenschaftlern untereinander, sowie mit der Industrie im Bereich Montage, Handhabung und Industrierobotik zur Beschleunigung der Forschung, Optimierung der Lehre und zur Verbesserung der internationalen Wettbewerbsfähigkeit der deutschen Industrie in diesem Bereich. Das Kolloquium fokussiert auf einen akademischen Austausch auf hohem Niveau, um die gewonnenen Forschungsergebnisse zu verteilen, synergetische Effekte und Trends zu bestimmen, die Akteure persönlich zu verbinden und das Forschungsfeld sowie die MHI-Gemeinschaft zu stärken.

Computational Materials Design - Tetsuya Saito 2013-04-17

This book consists of ten chapters which outline a wide range of technologies from first-principle calculations to continuum mechanics, with applications to materials design and development. Written with a clear exposition, this book will be invaluable for engineers who want to learn about the modern technologies and techniques utilized in materials design.

Lexikon der pädagogik der gegenwart - Deutsches Institut für Wissenschaftliche Pädagogik 1932

Open Geometry: OpenGL® + Advanced Geometry - Georg Glaeser 2012-12-06

At once a programming course that emphasises object-oriented thinking as well as a well-documented, versatile, and robust geometry library. All of the relevant geometry is covered in depth to provide a good understanding of the background to this topic. Many of the most common intersection problems and measuring tasks are covered, with the authors discussing the creation of arbitrary geometric objects and the use of Boolean operations to create more general solid objects. As a result, all those looking for an in-depth introduction to graphics programming will find this a solid, hands-on text.

Dynamics of Rotors on Refrigerant-Lubricated Gas Foil Bearings - Leister, Tim 2021-10-28

The gas foil bearing (GFB) technology is a key factor for the transition to oil-free rotating machinery. Among numerous advantages, GFBs offer the unique ability to be lubricated with working fluids such as refrigerants. However, the computational analysis of refrigerant-lubricated GFB-rotor systems represents an interdisciplinary problem of enormous complexity. This work pushes forward existing limits of feasibility and establishes a new strategy that enables stability and bifurcation analyses.

Manufacturing Processes 4 - Fritz Klocke 2014-07-08

This book provides essential information on metal forming, utilizing a practical distinction between bulk and sheet metal forming. In the field of bulk forming, it examines processes of cold, warm and hot bulk forming, as well as rolling and a new addition, the process of thixoforming. As for the field of sheet metal working, on the one hand it deals with sheet metal

forming processes (deep drawing, flange forming, stretch drawing, metal spinning and bending). In terms of special processes, the chapters on internal high-pressure forming and high rate forming have been revised and refined. On the other, the book elucidates and presents the state of the art in sheet metal separation processes (shearing and fineblanking). Furthermore, joining by forming has been added to the new edition as a new chapter describing mechanical methods for joining sheet metals. The new chapter "Basic Principles" addresses both sheet metal and bulk forming, in addition to metal physics, plastomechanics and computational basics; these points are complemented by the newly added topics of metallography and analysis, materials and processes for testing, and tribology and lubrication techniques. The chapters are supplemented by an in-depth description of modern numeric methods such as the finite element method. All chapters have been updated and revised for the new edition, and many practical examples from modern manufacturing processes have been added.

Brockhaus kleines Konversations-Lexikon - 1914

Geometrical Product Specifications - Zbigniew Humienny 2001

Physics for Scientists and Engineers - Paul A. Tipler 2007-05-01

The Sixth Edition of Physics for Scientists and Engineers offers a completely integrated text and media solution that will help students learn most effectively and will enable professors to customize their classrooms so that they teach most efficiently. The text includes a new strategic problem-solving approach, an integrated Math Tutorial, and new tools to improve conceptual

understanding. To simplify the review and use of the text, Physics for Scientists and Engineers is available in these versions: Volume 1 Mechanics/Oscillations and Waves/Thermodynamics (Chapters 1-20, R) 1-4292-0132-0 Volume 2 Electricity and Magnetism/Light (Chapters 21-33) 1-4292-0133-9 Volume 3 Elementary Modern Physics (Chapters 34-41) 1-4292-0134-7 Standard Version (Chapters 1-33, R) 1-4292-0124-X Extended Version (Chapters 1-41, R) 0-7167-8964-7

Applied Psychology for Project Managers - Monika Wastian 2015-02-24

This book offers an essential manual for project managers, project management offices (PMO's), trainers and consultants, addressing the psychological side of project management. Written by leading scholars in organizational psychology and by top experts in project management, it covers all major psychological topics that are key to project success. The book features dedicated chapters on leadership and teamwork, including virtual and intercultural cooperation, commitment and motivation of project teams. It adds a psychological perspective to personnel management, decision-making, information and knowledge management and communication in project work. Power, influencing tactics and other aspects of stakeholder management are covered, as well as project coaching, innovation and creativity, self-management and the management of conflicts, risks and crises.

Tagungsband des 3. Kongresses Montage Handhabung Industrieroboter - Thorsten Schüppstuhl 2018-04-05

Der MHI e.V. ist ein Netzwerk leitender Universitätsprofessoren aus dem deutschsprachigen Raum, die sowohl grundlagenorientiert als auch anwendungsnah in der Montage, Handhabung und Industrierobotik

erfolgreich forschend tätig sind. Die Gründung der Gesellschaft erfolgte im Frühjahr 2012. Der MHI e.V. hat derzeit 20 Mitglieder, die über ihre Institute und Lehrstühle zurzeit ca. 1.000 Wissenschaftler repräsentieren. Die übergeordnete Zielsetzung des MHI e.V. ist die Förderung der Zusammenarbeit von deutschsprachigen Wissenschaftlerinnen und Wissenschaftlern untereinander, sowie mit der Industrie im Bereich Montage, Handhabung und Industrierobotik zur Beschleunigung der Forschung, Optimierung der Lehre und zur Verbesserung der internationalen Wettbewerbsfähigkeit der deutschen Industrie in diesem Bereich. Das Kolloquium fokussiert auf einen akademischen Austausch auf hohem Niveau, um die gewonnenen Forschungsergebnisse zu verteilen, synergetische Effekte und Trends zu bestimmen, die Akteure persönlich zu verbinden und das Forschungsfeld sowie die MHI-Gemeinschaft zu stärken.

Iso Gps Ultimate Pocket Guide - 2015

Roll-to-Roll Manufacturing - Jehuda Greener 2018-03-27
A single-volume resource featuring state-of-the-art reviews of key elements of the roll-to-roll manufacturing processing methodology Roll-to-roll (R2R) manufacturing is an important manufacturing technology platform used extensively for mass-producing a host of film-type products in several traditional industries such as printing, silver-halide photography, and paper. Over the last two decades, some of the methodologies and know-how of R2R manufacturing have been extended and adapted in many new technology areas, including microelectronics, display, photovoltaics, and microfluidics. This comprehensive book presents the state-of-the-art unit operations of the R2R

manufacturing technology, providing a practical resource for scientists, engineers, and practitioners not familiar with the fundamentals of R2R technology. Roll-to-Roll Manufacturing: Process Elements and Recent Advances reviews new developments in areas such as flexible glass, display, and photovoltaics and covers a number of process innovations implemented recently to extend and improve the capabilities of traditional R2R lines. It covers such topics as: coating and solidification processes, in-line vacuum deposition, drying, web handling and winding, polymer film substrates, novel hybrid composite films, flexible solar cells and more. Additionally, this book: Examines key elements (unit operations) of the R2R technology, and discusses how these elements are utilized and integrated to achieve desired process efficiencies in a host of applications. Illustrates several established and novel application areas where R2R processing is utilized in current or future products. Discusses process design methodology and key advantages of R2R manufacturing technology over batch or sheet-to-sheet operations. Roll-to-Roll Manufacturing: Process Elements and Recent Advances is an ideal book for undergraduate and graduate students in various science and engineering disciplines, as well as for scientists, engineers, and technical and business leaders associated in any way with the development, commercialization, and manufacture of a variety of film products.

Zeitschrift für Arbeitswissenschaft - 1997

Engineering Mechanics 1 - Dietmar Gross 2012-08-28

Statics is the first volume of a three-volume textbook on Engineering Mechanics. The authors, using a time-honoured straightforward and flexible approach, present

the basic concepts and principles of mechanics in the clearest and simplest form possible to advanced undergraduate engineering students of various disciplines and different educational backgrounds. An important objective of this book is to develop problem solving skills in a systematic manner. Another aim of this volume is to provide engineering students as well as practising engineers with a solid foundation to help them bridge the gap between undergraduate studies on the one hand and advanced courses on mechanics and/or practical engineering problems on the other. The book contains numerous examples, along with their complete solutions. Emphasis is placed upon student participation in problem solving. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Now in its second English edition, this material has been in use for two decades in Germany, and has benefited from many practical improvements and the authors' teaching experience over the years. New to this edition are the extra supplementary examples available online as well as the TM-tools necessary to work with this method.

Searching for a Corporate Savior - Rakesh Khurana

2011-09-19

Corporate CEOs are headline news. Stock prices rise and fall at word of their hiring and firing. Business media debate their merits and defects as if individual leaders determined the health of the economy. Yet we know surprisingly little about how CEOs are selected and dismissed or about their true power. This is the first book to take us into the often secretive world of the CEO selection process. Rakesh Khurana's findings are surprising and disturbing. In recent years, he shows, corporations have increasingly sought CEOs who are above

all else charismatic, whose fame and force of personality impress analysts and the business media, but whose experience and abilities are not necessarily right for companies' specific needs. The labor market for CEOs, Khurana concludes, is far less rational than we might think. Khurana's findings are based on a study of the hiring and firing of CEOs at over 850 of America's largest companies and on extensive interviews with CEOs, corporate board members, and consultants at executive search firms. Written with exceptional clarity and verve, the book explains the basic mechanics of the selection process and how hiring priorities have changed with the rise of shareholder activism. Khurana argues that the market for CEOs, which we often assume runs on cool calculation and the impersonal forces of supply and demand, is culturally determined and too frequently inefficient. Its emphasis on charisma artificially limits the number of candidates considered, giving them extraordinary leverage to demand high salaries and power. It also raises expectations and increases the chance that a CEO will be fired for failing to meet shareholders' hopes. The result is corporate instability and too little attention to long-term strategy. The book

is a major contribution to our understanding of corporate culture and the nature of markets and leadership in general.

Human-Robot Interaction - Christoph Bartneck 2020-05-07

This broad overview for graduate students introduces multidisciplinary topics from robotics to sociology which are needed to understand the area.

Designing Reality - Neil Gershenfeld 2017-11-14

That's the promise, and peril, of the third digital revolution, where anyone will be able to make (almost) anything. Two digital revolutions -- computing and communication -- have radically transformed our economy and lives. A third digital revolution is here: fabrication. Today's 3D printers are only the start of a trend, accelerating exponentially, to turn data into objects: Neil Gershenfeld and his collaborators ultimately aim to create a universal replicator straight out of Star Trek. While digital fabrication promises us self-sufficient cities and the ability to make (almost) anything, it could also lead to massive inequality. The first two digital revolutions caught most of the world flat-footed, thanks to *Designing Reality* that won't be true this time.