

Harvard Business Minnesota Micromotors Simulation Solution

The Mechatronics Handbook - 2 Volume Set
HBR's 10 Must Reads on Managing People, Vol. 2 (with bonus article "The Feedback Fallacy" by Marcus Buckingham and Ashley Goodall)
HCI Beyond the GUI
Nanorobotics
Advanced Structural Materials
Computer and Computing Technologies in Agriculture II, Volume 3
HBR's 10 Must Reads on Strategy, Vol. 2 (with bonus article "Creating Shared Value" By Michael E. Porter and Mark R. Kramer)
Molecular Gas Dynamics and the Direct Simulation of Gas Flows
Soldier Boys
Ultrafast Ultrasound Imaging
Magnetic Components for Power Electronics
ICoRD'15 - Research into Design Across Boundaries Volume 1
The Hamlyn Symposium on Medical Robotics
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Surface Tension in Microsystems
Abstracts of papers
Substrate

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NoiseNanostructure Science and TechnologyIn
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The Mechatronics Handbook - 2 Volume Set

As technology expands and evolves, one-dimensional, graphical user interface (GUI) design becomes increasingly limiting and simplistic. Designers must meet the challenge of developing new and creative interfaces that adapt to meet human needs and technological trends. HCI Beyond the GUI provides designers with this know how by exploring new ways to reach users that involve all of the human senses. Dr. Kortum gathers contributions from leading human factors designers to present a single reference for professionals, researchers, and students. Explores the human factors involved in the design and implementation of the nontraditional interfaces, detailing design strategies, testing methodologies, and implementation techniques Provides an invaluable resource for practitioners who design interfaces for children, gamers and users with accessibility needs Offers extensive case studies, examples and design guidelines

HBR's 10 Must Reads on Managing People, Vol. 2 (with bonus article "The Feedback Fallacy" by Marcus

Buckingham and Ashley Goodall)

HCI Beyond the GUI

Magnetic Components for Power Electronics concerns the important considerations necessary in the choice of the optimum magnetic component for power electronic applications. These include the topology of the converter circuit, the core material, shape, size and others such as cost and potential component suppliers. These are all important for the design engineer due to the emergence of new materials, changes in supplier management and the examples of several component choices. Suppliers using this volume will also understand the needs of designers. Highlights include: Emphasis on recently introduced new ferrite materials, such as those operating at megahertz frequencies and under higher DC drive conditions; Discussion of amorphous and nanocrystalline metal materials; New technologies such as resonance converters, power factors correction (PFC) and soft switching; Catalog information from over 40 magnetic component suppliers; Examples of methods of component choice for ferrites, amorphous nanocrystalline materials; Information on suppliers management changes such as those occurring at Siemens, Philips, Thomson and Allied-Signal; Attention to the increasingly important concerns about EMI. This book should be especially helpful for power electronic circuit designers, technical executives, and material science engineers involved with power electronic components.

Nanorobotics

Spencer Morgan And Dieter Hedrick, one American, one German, are both young and eager to get into action in the war. Dieter, a shining member of the Hitler Youth movement, has actually met the Führer himself and was praised for his hard work. Now he is determined to make it to the front lines, to push back the enemy and defend the honor of the Fatherland. Spencer, just sixteen, must convince his father to sign his induction papers. He is bent on becoming a paratrooper -- the toughest soldiers in the world. He will prove to his family and hometown friends that he is more than the little guy with crooked teeth. He'll prove to his father that he can amount to something and keep his promises. Everyone will look at him differently when he returns home in his uniform, trousers tucked into his boots in the paratrooper style. Both boys get their wishes when they are tossed into intense conflict during the Battle of the Bulge. And both soon learn that war is about a lot more than proving oneself and one's bravery. Dean Hughes offers young readers a wrenching look at parallel lives and how innocence must eventually be shed.

Advanced Structural Materials

Nanorobots can be defined as intelligent systems with overall dimensions at or below the micrometer range that are made of assemblies of nanoscale components with individual dimensions ranging between 1 to 100 nm. These devices can now perform

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a wide variety of tasks at the nanoscale in a wide variety of fields including but not limited to fields such as manufacturing, medicine, supply chain, biology, and aerospace. Nanorobotics: Current Approaches and Techniques offers a comprehensive overview of this emerging interdisciplinary field with a wide ranging discussion that includes nano-manipulation and industrial nanorobotics, nanorobotic manipulation in biology and medicine, nanorobotic sensing, navigation and swarm behavior and CNT, and protein and DNA-based nanorobotics.

Computer and Computing Technologies in Agriculture II, Volume 3

Offers advice on how to lead an organization into change, including establishing a sense of urgency, developing a vision and strategy, and generating short-term wins.

HBR's 10 Must Reads on Strategy, Vol. 2 (with bonus article "Creating Shared Value" By Michael E. Porter and Mark R. Kramer)

Timely information on scientific and engineering developments occurring in laboratories around the world provides critical input to maintaining the economic and technological strength of the United States. Moreover, sharing this information quickly with other countries can greatly enhance the productivity of scientists and engineers. These are some of the reasons why the National Science

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Foundation (NSF) has been involved in funding science and technology assessments comparing the United States and foreign countries since the early 1980s. A substantial number of these studies have been conducted by the World Technology Evaluation Center (WTEC) managed by Loyola College through a cooperative agreement with NSF. The National Science and Technology Council (NSTC), Committee on Technology's Interagency Working Group on NanoScience, Engineering and Technology (CT/IWGN) worked with WTEC to develop the scope of this Nanostucture Science and Technology report in an effort to develop a baseline of understanding for how to strategically make Federal nanoscale R&D investments in the coming years. The purpose of the NSTC/WTEC activity is to assess R&D efforts in other countries in specific areas of technology, to compare these efforts and their results to U. S. research in the same areas, and to identify opportunities for international collaboration in precompetitive research. Many U. S. organizations support substantial data gathering and analysis efforts focusing on nations such as Japan. But often the results of these studies are not widely available. At the same time, government and privately sponsored studies that are in the public domain tend to be "input" studies.

Molecular Gas Dynamics and the Direct Simulation of Gas Flows

The information revolution--which is as much an organizational as a technological revolution--is transforming the nature of conflict across the

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spectrum: from open warfare, to terrorism, crime, and even radical social activism. The era of massed field armies is passing, because the new information and communications systems are increasing the lethality of quite small units that can call in deadly, precise missile fire almost anywhere, anytime. In social conflicts, the Internet and other media are greatly empowering individuals and small groups to influence the behavior of states. Whether in military or social conflicts, all protagonists will soon be developing new doctrines, strategies, and tactics for swarming their opponents--with weapons or words, as circumstances require. Preparing for conflict in such a world will require shifting to new forms of organization, particularly the versatile, hardy, all-channel network. This shift will prove difficult for states and professional militaries that remain bastions of hierarchy, bound to resist institutional redesign. They will make the shift as they realize that information and knowledge are becoming the key elements of power. This implies, among other things, that Mars, the old brute-force god of war, must give way to Athena, the well-armed goddess of wisdom. Accepting Athena as the patroness of this information age represents a first step not only for preparing for future conflicts, but also for preventing them.

Soldier Boys

This second edition of a highly regarded text covers all the recent research developments in gas dynamics including the direct simulation Monte Carlo method (DSMC).

Ultrafast Ultrasound Imaging

This book introduces the state-of-the-art technologies in mechatronics, robotics, and MEMS devices in order to improve their methodologies. It provides a follow-up to "Advanced Mechatronics and MEMS Devices" (2013) with an exploration of the most up-to-date technologies and their applications, shown through examples that give readers insights and lessons learned from actual projects. Researchers on mechatronics, robotics, and MEMS as well as graduate students in mechanical engineering will find chapters on: Fundamental design and working principles on MEMS accelerometers Innovative mobile technologies Force/tactile sensors development Control schemes for reconfigurable robotic systems Inertial microfluidics Piezoelectric force sensors and dynamic calibration techniques And more. Authors explore applications in the areas of agriculture, biomedicine, advanced manufacturing, and space. Micro-assembly for current and future industries is also considered, as well as the design and development of micro and intelligent manufacturing.

Magnetic Components for Power Electronics

Are you a good boss--or a great one? Get more of the management ideas you want, from the authors you trust, with HBR's 10 Must Reads on Managing People (Vol. 2). We've combed through hundreds of Harvard Business Review articles and selected the most important ones to help you master the innumerable

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challenges of being a manager. With insights from leading experts including Marcus Buckingham, Michael D. Watkins, and Linda Hill, this book will inspire you to:

- Draw out your employees' signature strengths
- Support a culture of honesty and civility
- Cultivate better communication and deeper trust among global teams
- Give feedback that will help your people excel
- Hire, reward, and tolerate only fully formed adults
- Motivate your employees through small wins
- Foster collaboration and break down silos across your company

This collection of articles includes "Are You a Good Boss--or a Great One?," by Linda A. Hill and Kent Lineback; "Let Your Workers Rebel," by Francesca Gino; "The Feedback Fallacy," by Marcus Buckingham and Ashley Goodall; "The Power of Small Wins," by Teresa M. Amabile and Steven J. Kramer; "The Price of Incivility," by Christine Porath and Christine Pearson; "What Most People Get Wrong About Men and Women," by Catherine H. Tinsley and Robin J. Ely; "How Netflix Reinvented HR," by Patty McCord; "Leading the Team You Inherit," by Michael D. Watkins; "The Overcommitted Organization," by Mark Mortensen and Heidi K. Gardner; "Global Teams That Work," by Tsedal Neeley; "Creating the Best Workplace on Earth," by Rob Goffee and Gareth Jones.

ICoRD'15 - Research into Design Across Boundaries Volume 1

The papers in this volume comprise the refereed proceedings of the Second IFIP International Conference on Computer and Computing Technologies in Agriculture (CCTA2008), in Beijing,

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China, 2008. The conference on the Second IFIP International Conference on Computer and Computing Technologies in Agriculture (CCTA 2008) is cooperatively sponsored and organized by the China Agricultural University (CAU), the National Engineering Research Center for Information Technology in Agriculture (NERCITA), the Chinese Society of Agricultural Engineering (CSAE) , International Federation for Information Processing (IFIP), Beijing Society for Information Technology in Agriculture, China and Beijing Research Center for Agro-products Test and Farmland Inspection, China. The related departments of China's central government bodies like: Ministry of Science and Technology, Ministry of Industry and Information Technology, Ministry of Education and the Beijing Municipal Natural Science Foundation, Beijing Academy of Agricultural and Forestry Sciences, etc. have greatly contributed and supported to this event. The conference is as good platform to bring together scientists and researchers, agronomists and information engineers, extension servers and entrepreneurs from a range of disciplines concerned with impact of Information technology for sustainable agriculture and rural development. The representatives of all the supporting organizations, a group of invited speakers, experts and researchers from more than 15 countries, such as: the Netherlands, Spain, Portugal, Mexico, Germany, Greece, Australia, Estonia, Japan, Korea, India, Iran, Nigeria, Brazil, China, etc.

The Hamlyn Symposium on Medical

Robotics

In the past decade, substrate noise has had a constant and significant impact on the design of analog and mixed-signal integrated circuits. Only recently, with advances in chip miniaturization and innovative circuit design, has substrate noise begun to plague fully digital circuits as well. To combat the effects of substrate noise, heavily over-designed structures are generally adopted, thus seriously limiting the advantages of innovative technologies. Substrate Noise: Analysis and Optimization for IC Design addresses the main problems posed by substrate noise from both an IC and a CAD designer perspective. The effects of substrate noise on performance in digital, analog, and mixed-signal circuits are presented, along with the mechanisms underlying noise generation, injection, and transport. Popular solutions to the substrate noise problem and the trade-offs often debated by designers are extensively discussed. Non-traditional approaches as well as semi-automated techniques to combat substrate noise are also addressed. Substrate Noise: Analysis and Optimization for IC Design will be of interest to researchers and professionals interested in signal integrity, as well as to mixed signal and RF designers.

Thin Film Materials

Aligning Strategy and Sales

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WINNER 2009 CHOICE AWARD OUTSTANDING ACADEMIC TITLE! Nanotechnology is no longer a subdiscipline of chemistry, engineering, or any other field. It represents the convergence of many fields, and therefore demands a new paradigm for teaching. This textbook is for the next generation of nanotechnologists. It surveys the field's broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors. This color text is an ideal companion to Introduction to Nanoscience by the same group of esteemed authors. Both titles are also available as the single volume Introduction to Nanoscience and Nanotechnology. Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

HBR's 10 Must Reads on Managing Yourself (with bonus article "How Will You Measure Your Life?" by Clayton M. Christensen)

Navigate the complexities of biochemical thermodynamics with Mathematica(r) Chemical reactions are studied under the constraints of

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constant temperature and constant pressure; biochemical reactions are studied under the additional constraints of pH and, perhaps, pMg or free concentrations of other metal ions. As more intensive variables are specified, more thermodynamic properties of a system are defined, and the equations that represent thermodynamic properties as a function of independent variables become more complicated. This sequel to Robert Alberty's popular *Thermodynamics of Biochemical Reactions* describes how researchers will find Mathematica(r) a simple and elegant tool, which makes it possible to perform complex calculations that would previously have been impractical. *Biochemical Thermodynamics: Applications of Mathematica(r)* provides a comprehensive and rigorous treatment of biochemical thermodynamics using Mathematica(r) to practically resolve thermodynamic issues. Topics covered include: * Thermodynamics of the dissociation of weak acids * Apparent equilibrium constants * Biochemical reactions at specified temperatures and various pHs * Uses of matrices in biochemical thermodynamics * Oxidoreductase, transferase, hydrolase, and lyase reactions * Reactions at 298.15K * Thermodynamics of the binding of ligands by proteins * Calorimetry of biochemical reactions

Because Mathematica(r) allows the intermingling of text and calculations, this book has been written in Mathematica(r) and includes a CD-ROM containing the entire book along with macros that help scientists and engineers solve their particular problems.

Engineering Economy

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"The best sales book of the year" — strategy+business magazine That gap between your company's sales efforts and strategy? It's real—and a huge vulnerability. Addressing that gap, actionably and with attention to relevant research, is the focus of this book. In *Aligning Strategy and Sales*, Harvard Business School professor Frank Cespedes equips you to link your go-to-market initiatives with strategic goals. Cespedes offers a road map to articulate strategy in ways that people in the field can understand and that will fuel the behaviors required for profitable growth. Without that alignment, leaders will press for better execution when they need a better strategy, or change strategic direction with great cost and turmoil when they should focus on the basics of sales execution. With thoughtful, clear, and engaging examples, *Aligning Strategy and Sales* provides a framework for diagnosing and managing the core levers available for effective selling in any organization. It will give you the know-how and tools to move from ideas to action and build a sales effort linked to your firm's unique goals, not a generic selling formula. Cespedes shows how sales efforts affect all elements of value creation in a business, whether you're a start-up seeking to scale or an established firm looking to jump-start new growth. The book provides key insights to optimize your firm's customer management activities and so improve selling and strategy.

Leading Change

A snapshot of the central ideas used to control

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fracture properties of engineered structural metallic materials, *Advanced Structural Materials: Properties, Design Optimization, and Applications* illustrates the critical role that advanced structural metallic materials play in aerospace, biomedical, automotive, sporting goods, and other industries in the twenty-first century. The book presents an overview of the structure, properties, and applications of these materials, including the basic ideas behind their design. It contains examples and accessible language, elucidating the basic concepts that guide the development of new alloys and composite materials. With in-depth reviews from leading contributors, the text develops an understanding of the breadth and depth of advances in the field. It begins with a broad introduction to advanced structural materials, then examines materials at the frontiers of emerging applications such as biomaterials, MEMS, amorphous materials, and nanotechnology. The chapter authors are experts in their own right and they assume no prior knowledge of a given material system, delineating the fundamental concepts and applications of advanced structural materials. The rich array of carefully selected topics provides useful insights into the structure, properties, and applications of advanced structural materials.

Soft Computing and Intelligent Systems Design

This book is designed to offer a comprehensive high-level introduction to transhumanism, an international political and cultural movement that aims to produce

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a “paradigm shift” in our ethical and political understanding of human evolution. Transhumanist thinkers want the human species to take the course of evolution into its own hands, using advanced technologies currently under development – such as robotics, artificial intelligence, biotechnology, cognitive neurosciences, and nanotechnology – to overcome our present physical and mental limitations, improve our intelligence beyond the current maximum achievable level, acquire skills that are currently the preserve of other species, abolish involuntary aging and death, and ultimately achieve a post-human level of existence. The book covers transhumanism from a historical, philosophical, and scientific viewpoint, tracing its cultural roots, discussing the main philosophical, epistemological, and ethical issues, and reviewing the state of the art in scientific research on the topics of most interest to transhumanists. The writing style is clear and accessible for the general reader, but the book will also appeal to graduate and undergraduate students.

Advanced Mechatronics and MEMS Devices II

Biochemical Thermodynamics

This updated volume provides a comprehensive guide to the recent developments of digital and intelligent technologies related to genitourinary surgery. New topics include the adaptation of simulators, training programs, standardized credentialing, evidence-based

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practice, as well as the economics of robotic surgery. The impact on public and global health is also covered. Robotics in Genitourinary Surgery aims to help surgeons and patients adopt the techniques and procedures discussed, and in turn educate and expand research activities within the field.

Transhumanism - Engineering the Human Condition

Bridging the gap between laser physics and applied mathematics, this book offers a new perspective on laser dynamics. Combining fresh treatments of classic problems with up-to-date research, asymptotic techniques appropriate for nonlinear dynamical systems are shown to offer a powerful alternative to numerical simulations. The combined analytical and experimental description of dynamical instabilities provides a clear derivation of physical formulae and an evaluation of their significance. Starting with the observation of different time scales of an operating laser, the book develops approximation techniques to systematically explore their effects. Laser dynamical regimes are introduced at different levels of complexity, from standard turn-on experiments to stiff, chaotic, spontaneous or driven pulsations. Particular attention is given to quantitative comparisons between experiments and theory. The book broadens the range of analytical tools available to laser physicists and provides applied mathematicians with problems of practical interest, making it invaluable for graduate students and researchers.

Science--the Endless Frontier

Feynman And Computation

If you are studying soft computing, intelligent machines or intelligent control then this book will give you the theory you need together with a vast array of examples and practical material, providing you with a thorough grounding in this exciting field. Practising professionals will find the introductory material, application oriented techniques and case studies especially helpful. Theory meets practice through numerous examples and solved real world problems. Comprehensive case studies demonstrate a wide range of applications across science and engineering. Extensive coverage of intelligent systems design including intelligent control and time series prediction.

Sudden Selector's Guide to Physics Resources

Mechatronics has evolved into a way of life in engineering practice, and it pervades virtually every aspect of the modern world. In chapters drawn from the bestselling and now standard engineering reference, The Mechatronics Handbook, this book introduces the vibrant field of mechatronics and its key elements: physical system modeling; sensors and actuators; signals and systems; computers and logic systems; and software and data acquisition. These chapters, written by leading academics and

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practitioners, were carefully selected and organized to provide an accessible, general outline of the subject ideal for non-specialists. Mechatronics: An Introduction first defines and organizes the key elements of mechatronics, exploring design approach, system interfacing, instrumentation, control systems, and microprocessor-based controllers and microelectronics. It then surveys physical system modeling, introducing MEMS along with modeling and simulation. Coverage then moves to essential elements of sensors and actuators, including characteristics and fundamentals of time and frequency, followed by control systems and subsystems, computer hardware, logic, system interfaces, communication and computer networking, data acquisition, and computer-based instrumentation systems. Clear explanations and nearly 200 illustrations help bring the subject to life. Providing a broad overview of the fundamental aspects of the field, Mechatronics: An Introduction is an ideal primer for those new to the field, a handy review for those already familiar with the technology, and a friendly introduction for anyone who is curious about mechatronics.

Laser Dynamics

This book describes how surface tension effects can be used by engineers to provide mechanical functions in miniaturized products (1 mm). Even if precursors of this field such as Jurin or Laplace already date back to the 18th century, describing surface tension effects from a mechanical perspective is very recent.brThe

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originality of this book is to consider the effects of capillary bridges on solids, including forces and torques exerted both statically and dynamically by the liquid along the 6 degrees-of-freedom. brlt provides a comprehensive approach to various applications, such as capillary adhesion (axial force), centering force in packaging and micro-assembly (lateral force) and recent developments such as a capillary motor (torque).

Holt Physics

Richard P. Feynman made profoundly important and prescient contributions to the physics of computing, notably with his seminal articles "There's Plenty of Room at the Bottom" and "Simulating Physics with Computers." These two provocative papers (both reprinted in this volume) anticipated, decades before their time, several breakthroughs that have since become fields of science in their own right, such as nanotechnology and the newest, perhaps most exciting area of physics and computer science, quantum computing. The contributors to this book are all distinguished physicists and computer scientists, and many of them were guest lecturers in Feynman's famous CalTech course on the limits of computers. they include Charles Bennett on Quantum Information Theory, Geoffrey Fox on Internetics, Norman Margolus on Crystalline Computation, and Tommaso Toffoli on the Fungibility of Computation. Both a tribute to Feynman and a new exploration of the limits of computers by some of today's most influential scientists, Feynman and Computation continues the

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pioneering work started by Feynman and published by him in his own Lectures on Computation. This new computation volume consists of both original chapters and reprints of classic papers by leaders in the field. Feynman and Computation will generate great interest from the scientific community and provide essential background for further work in this field.

Robotics in Genitourinary Surgery

Fundamentals of Nanotechnology

This book constitutes the refereed proceedings of the 24th International Conference on Computer Safety, Reliability, and Security, SAFECOMP 2005, held in Fredrikstad, Norway, in September 2005. The 30 revised full papers were carefully reviewed and selected for inclusion in the book. The papers address all aspects of dependability and survivability of critical computerized systems in various branches and infrastructures.

Surface Tension in Microsystems

This innovative engineering economy text features spreadsheets, pedagogical graphs, and practical examples for immediate student and industry application. It combines the real-world orientation of Eschenbach's pioneering casebook, Cases in Engineering Economy, with the theoretical foundation of his second edition of Bussey's classic advanced text, The Economic Analysis of Industrial Projects.

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Eschenbach's Engineering Economy: Applying Theory to Practice thoroughly covers the basics of engineering economy that are included in every course and covered in the FE exam. It also includes the tools and concepts--such as cost estimating, sensitivity analysis, probability, and multiple objectives--that are needed to successfully apply engineering economy in industry practice outside the classroom. This text was designed to emphasize the strengths of traditional factors and of spreadsheet coverage.

Abstracts of papers

Thin film mechanical behavior and stress presents a technological challenge for materials scientists, physicists and engineers. This book provides a comprehensive coverage of the major issues and topics dealing with stress, defect formation, surface evolution and allied effects in thin film materials. Physical phenomena are examined from the continuum down to the sub-microscopic length scales, with the connections between the structure of the material and its behavior described. Theoretical concepts are underpinned by discussions on experimental methodology and observations. Fundamental scientific concepts are embedded through sample calculations, a broad range of case studies with practical applications, thorough referencing, and end of chapter problems. With solutions to problems available on-line, this book will be essential for graduate courses on thin films and the classic reference for researchers in the field.

Substrate Noise

Get your "A" in gear! They're today's most popular study guides-with everything you need to succeed in school. Written by Harvard students for students, since its inception SparkNotes™ has developed a loyal community of dedicated users and become a major education brand. Consumer demand has been so strong that the guides have expanded to over 150 titles. SparkNotes'™ motto is Smarter, Better, Faster because:

- They feature the most current ideas and themes, written by experts.
- They're easier to understand, because the same people who use them have also written them.
- The clear writing style and edited content enables students to read through the material quickly, saving valuable time. And with everything covered--context; plot overview; character lists; themes, motifs, and symbols; summary and analysis, key facts; study questions and essay topics; and reviews and resources--you don't have to go anywhere else!

Nanostructure Science and Technology

Do you have the right strategy to lead your company into the future? Get more of the management ideas you want, from the authors you trust, with HBR's 10 Must Reads on Strategy (Vol. 2). We've combed through hundreds of Harvard Business Review articles and selected the most important ones to help you combat new competitors and define the best strategy for your company. With insights from leading experts including Michael E. Porter, A.G. Lafley, and Clayton

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M. Christensen, this book will inspire you to: Choose a strategy that meets the demands of your competitive environment Identify the signals of disruption and take steps to avoid it Understand lean methodology and how it is changing business Transform your products and services into platforms Instill your strategy with creativity and purpose Generate value for your company, while also contributing to society This collection of articles includes "Your Strategy Needs a Strategy," by Martin Reeves, Claire Love, and Philipp Tillmanns; "Transient Advantage," by Rita Gunther McGrath; "Bringing Science to the Art of Strategy," by A.G. Lafley, Roger L. Martin, Jan W. Rivkin, and Nicolaj Siggelkow; "Managing Risks: A New Framework," by Robert S. Kaplan and Anette Mikes; "Surviving Disruption," by Maxwell Wessel and Clayton M. Christensen; "The Great Repeatable Business Model," by Chris Zook and James Allen; "Pipelines, Platforms, and the New Rules of Strategy," by Marshall W. Van Alstyne, Geoffrey G. Parker, and Sangeet Paul Choudary; "Why the Lean Start-Up Changes Everything," by Steve Blank; "Strategy Needs Creativity," by Adam Brandenburger; "Put Purpose at the Core of Your Strategy," by Thomas W. Malnight, Ivy Buche, and Charles Dhanaraj; "Creating Shared Value," by Michael E. Porter and Mark R. Kramer.

In Athena's Camp

The path to your professional success starts with a critical look in the mirror. If you read nothing else on managing yourself, read these 10 articles (plus the

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bonus article "How Will You Measure Your Life?" by Clayton M. Christensen). We've combed through hundreds of Harvard Business Review articles to select the most important ones to help you maximize yourself. HBR's 10 Must Reads on Managing Yourself will inspire you to: Stay engaged throughout your 50+-year work life Tap into your deepest values Solicit candid feedback Replenish physical and mental energy Balance work, home, community, and self Spread positive energy throughout your organization Rebound from tough times Decrease distractibility and frenzy Delegate and develop employees' initiative This collection of best-selling articles includes: bonus article "How Will You Measure Your Life?" by Clayton M. Christensen, "Managing Oneself," "Management Time: Who's Got the Monkey?" "How Resilience Works," "Manage Your Energy, Not Your Time," "Overloaded Circuits: Why Smart People Underperform," "Be a Better Leader, Have a Richer Life," "Reclaim Your Job," "Moments of Greatness: Entering the Fundamental State of Leadership," "What to Ask the Person in the Mirror," and "Primal Leadership: The Hidden Driver of Great Performance."

Societal Impact of Spaceflight

This book is a printed edition of the Special Issue "Ultrafast Ultrasound Imaging" that was published in Applied Sciences

Computer Safety, Reliability, and Security

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This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches. Features:

- Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting
- Presents an in-depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting
- Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation
- Describes the most recent, emerging, and innovative technologies of drug delivery
- Provides real-life examples of the clinical translation of drug delivery technologies through the use of case studies
- Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems—crucial considerations in order to achieve licensing approval for these new technologies

Mechatronics

We live in an age of unprecedented opportunity: with ambition, drive, and talent, you can rise to the top of your chosen profession regardless of where you started out. But with opportunity comes responsibility.

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Companies today aren't managing their knowledge workers careers. Instead, you must be your own chief executive officer. That means it's up to you to carve out your place in the world and know when to change course. And it's up to you to keep yourself engaged and productive during a career that may span some 50 years. In *Managing Oneself*, Peter Drucker explains how to do it. The keys: Cultivate a deep understanding of yourself by identifying your most valuable strengths and most dangerous weaknesses; Articulate how you learn and work with others and what your most deeply held values are; and Describe the type of work environment where you can make the greatest contribution. Only when you operate with a combination of your strengths and self-knowledge can you achieve true and lasting excellence.

Managing Oneself identifies the probing questions you need to ask to gain the insights essential for taking charge of your career. Peter Drucker was a writer, teacher, and consultant. His 34 books have been published in more than 70 languages. He founded the Peter F. Drucker Foundation for Nonprofit Management, and counseled 13 governments, public services institutions, and major corporations.

The Bean Trees

This book showcases cutting-edge research papers from the 5th International Conference on Research into Design – the largest in India in this area – written by eminent researchers from across the world on design process, technologies, methods and tools, and their impact on innovation, for supporting design

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across boundaries. The special features of the book are the variety of insights into the product and system innovation process, and the host of methods and tools from all major areas of design research for the enhancement of the innovation process. The main benefit of the book for researchers in various areas of design and innovation are access to the latest quality research in this area, with the largest collection of research from India. For practitioners and educators, it is exposure to an empirically validated suite of theories, models, methods and tools that can be taught and practiced for design-led innovation.

Managing Oneself

Drug Delivery

The first comprehensive reference on mechatronics, The Mechatronics Handbook was quickly embraced as the gold standard in the field. From washing machines, to coffeemakers, to cell phones, to the ubiquitous PC in almost every household, what, these days, doesn't take advantage of mechatronics in its design and function? In the scant five years since the initial publication of the handbook, the latest generation of smart products has made this even more obvious. Too much material to cover in a single volume Originally a single-volume reference, the handbook has grown along with the field. The need for easy access to new material on rapid changes in technology, especially in computers and software, has made the single volume format unwieldy. The second

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