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A step-by-step, full-color guide to successful medical technology innovation with a new focus on value-based innovation and global opportunities.

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The Process of Innovating Medical Technologies Cambridge University Press

Recognize market opportunities, master the design process, and develop business acumen with this 'how-to' guide to medical

technology innovation. Outlining a systematic, proven approach for innovation - identify, invent, implement - and integrating medical, engineering, and business challenges with real-world case studies, this book provides a practical guide for students and professionals.

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The Process of Innovating Medical Technologies *Cambridge University Press*

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Commercializing Successful Biomedical Technologies

Basic Principles for the Development of Drugs, Diagnostics and Devices *Cambridge University Press*

Successful product design and development requires the ability to take a concept and translate the technology into useful, patentable, commercial products. This book guides the reader through the practical aspects of the commercialization process of drug, diagnostic and device biomedical technology including market analysis, product development, intellectual property and regulatory constraints. Key issues are highlighted at each stage in the process, and case studies are used to provide practical examples. The book will provide a sound road map for those involved in the biotechnology industry to effectively plan the commercialization of profitable regulated medical products. It will also be suitable for a capstone design course in engineering and biotechnology, providing the student with the business acumen skills involved in product development.

Biodesign

The Process of Innovating Medical Technologies *Cambridge University Press*

This step-by-step guide to medical technology innovation, now in full color, has been rewritten to reflect recent trends of industry globalization and value-conscious healthcare. Written by a team of medical, engineering, and business experts, the authors provide a comprehensive resource that leads students, researchers, and entrepreneurs through a proven process for the identification, invention, and implementation of new solutions. Case studies on innovative products from around the world, successes and failures, practical advice, and end-of-chapter 'Getting Started' sections encourage readers to learn from real projects and apply important lessons to their own work. A wealth of additional material supports the book, including a collection of nearly one hundred videos created for the second edition, active links to external websites, supplementary appendices, and timely updates on the companion website at ebiodesign.org. Readers can access this material quickly, easily, and at the most relevant point in the text from within the ebook.

Medical Device Design

Innovation from Concept to Market *Academic Press*

This book provides the bridge between engineering design and medical device development. There is no single text that addresses the plethora of design issues a medical devices designer meets when developing new products or improving older ones. It addresses medical devices' regulatory (FDA and EU) requirements--some of the most stringent engineering requirements globally. Engineers failing to meet these requirements can cause serious harm to users as well as their products' commercial prospects. This Handbook shows the essential methodologies medical designers must understand to ensure their products meet requirements. It brings together proven design protocols and puts them in an explicit medical context based on the author's years of academia (R&D phase) and industrial (commercialization phase) experience. This design methodology enables engineers and medical device manufacturers to bring new products to the marketplace rapidly. The medical device market is a multi-billion dollar industry. Every engineered product for this sector, from scalpels to complex medical equipment, must be designed and developed to approved procedures and standards. This book shows how Covers US, and EU and ISO standards, enabling a truly international approach, providing a guide to the international standards that practicing engineers require to understand Written by an experienced medical device engineers and entrepreneurs with products in the from the US and UK and with real world experience of developing and commercializing medical products

The Medical Device R&D Handbook *CRC Press*

The Medical Device R&D Handbook presents a wealth of information for the hands-on design and building of medical devices. Detailed information on such diverse topics as catheter building, prototyping, materials, processes, regulatory issues, and much more are available in this convenient handbook for the first time. The Medical Device R&D Ha

Innovation, Commercialization, and Start-Ups in Life Sciences *CRC Press*

Innovation is a translation of a new method, idea, or product into reality and profit. It is a process of connected steps that accumulates into a brand reputation required for success. Unlike Fortune 500 companies, whose projects are self-funded, a start-up must simultaneously have a value proposition that attracts a

customer (for revenue), investors (for capital), and acquirers (for a liquidity event or IPO). A high percentage of start-ups fail before attaining positive cashflow, due to a variety of reasons that are detailed in this book. Avoiding the pitfalls and wrong turns are the goals of this book. Innovation, Commercialization, and Start-Ups in Life Sciences details the methodologies necessary to create a successful life science start-up from initiation to exit. Written by an expert who has worked with more than 500 life science start-ups, this book discusses specific processes and investor milestones that must be navigated to align customer, funder, and acquirer needs. Successful commercialization requires attention to multiple constituents, such as investors, regulators, and customers. Investors require liquidity for their return, which is achieved through selling their stock in a public or private sale. The reader will gain an appreciation for the necessary data, partnerships, and skills needed to create a competitive and sustainable company. The author discusses such specific issues as customer problems, demonstrating sales access, and ensuring intellectual property is impervious to competitive advancement. This book is intended to be suitable for entrepreneurs, venture capitalists, and investors in both business and academic settings. These organizations have specific departments, such as R&D, operations, business development, legal, regulatory, and marketing, that would also benefit from this book. **FEATURES** Focuses specifically on life science start-ups Examines how to determine a company valuation and future "fundable milestones" Explores how to align regulatory and clinical strategies Discusses intellectual property derived from a university or individual through formation to exit. Reviews how start-ups must simultaneously meet the needs of multiple constituencies at once: investors, regulators, customers and exit candidates James F. Jordan is an author, consultant, and speaker. He is a Distinguished Service Professor of Healthcare & Biotechnology Management, a former Fortune 100 executive, and a managing director of a venture fund. Access the Support Material: <https://healthcaredata.center/> Cover design by Sarah Mailhott.

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Nature * Science * Creativity *Thames & Hudson*

Bioluminescent algae, symbiotic aquariums, self-healing concrete, clavicle wind instruments and structures made from living trees - biology applied outside the lab has never been so intriguing, or so beautiful. Bio Design examines the thrilling advances in the field, showcasing some seventy projects (concepts, prototypes and completed designs) that cover a range of fields - from architecture and industrial design to fashion and medicine. The revised and expanded edition features twelve new projects (replacing ten existing projects): Hy-Fi (by David Benjamin); One Central Park, Sydney (Jean Nouvel); Guard from Above (Sjoerd Hoogendoorn); Cell-laden Hydrogels for Biocatalysis (Alshakim Nelson); Zoa (Modern Meadow); Amino Labs (Julie Legault); Algae and Mycelium Projects (Eric Klarenbeek); Interwoven and Harvest (Diane Scherer); Concrete Honey (John Becker); Bistro In Vitro (Koert van Mensvoort); Circumventive Organs (Agi Haines); Quantworm Mine (Liv Bargman and Nina Cutler). It also includes a new 'how-to' section at the end (Tips for Collaboration/FAQs/Further Resources), as well as a fully revised introduction.

Design of Biomedical Devices and Systems, 4th edition *CRC Press*

This fourth edition is a substantial revision of a highly regarded text, intended for senior design capstone courses within

departments of biomedical engineering, bioengineering, biological engineering and medical engineering, worldwide. Each chapter has been thoroughly updated and revised to reflect the latest developments. New material has been added on entrepreneurship, bioengineering design, clinical trials and CRISPR. Based upon feedback from prior users and reviews, additional and new examples and applications, such as 3D printing have been added to the text. Additional clinical applications were added to enhance the overall relevance of the material presented. Relevant FDA regulations and how they impact the designer's work have been updated. Features Provides updated material as needed to each chapter Incorporates new examples and applications within each chapter Discusses new material related to entrepreneurship, clinical trials and CRISPR Relates critical new information pertaining to FDA regulations. Presents new material on "discovery" of projects "worth pursuing" and design for health care for low-resource environments Presents multiple case examples of entrepreneurship in this field Addresses multiple safety and ethical concerns for the design of medical devices and processes

Medical Device Marketing

Strategies, Gameplans & Resources for Successful Product Management

The Insider's Guide to Success in this Unique Industry To make it in the competitive and fast-changing medical device industry, you need to be armed with the best information available. That's where Medical Device Marketing comes in. With more than 20 years' experience in the business, author Terri Wells outlines a complete road map for a successful product cycle-from development to phase-out. You'll learn: How to identify the customer-and why this seemingly simple task is trickier than it sounds. Steps to a winning business plan-from conducting insightful market research to making accurate cost projections. Keys to product development-along with what to do when the unexpected happens. Effective sales support-including what you really need to know about how every sales team operates. How to get product launches right-as well as the communication tips that will make or break a great product. Tactics for managing existing product lines-and how to boost sales during a plateau. Insider advice for a successful career-and the key behaviors you must always, absolutely avoid in order to keep it. Much, much more! Whether you are aiming for a product management position or are a longtime veteran, Medical Device Marketing is the unique and up-to-the-minute guidebook for this exciting business. It's packed with real-life examples, sample charts and marketing plans, and-most importantly-keen insight you won't find anywhere else."

Biomimicry for Materials, Design and Habitats

Innovations and Applications *Elsevier*

Biomimicry for Materials, Design and Habitats: Innovations and is a survey of the recent work of recognized experts in a variety of fields who employ biomimicry and related paradigms to solve key problems of interest within design, science, technology, and society. Topics covered include innovations from biomimicry in materials, product design, architecture, and biological sciences. The book is a useful resource for educators, designers, researchers, engineers, and materials scientists, taking them from the theory behind biomimicry to real world applications. Living systems have evolved innovative solutions to challenges that humans face on a daily basis. Nonlinear multifunctional systems that have a symbiotic relationship with their

environment are the domain of nature. Morphological solutions for buildings inspired by nature can be used for skins, surfaces, and structures to facilitate environmental adaptation of buildings to increase occupant comfort and reduce energy demands. Birds can teach us to produce novel structures, 3D printing can be informed by oysters and mussels, and mycelium may show us the way to fabricate new biocomposites in architecture. Therefore, it is in nature that we seek inspiration for the solutions to tomorrow's challenges. . presents new directions in education and the various applications of biomimicry within industry, including bio-inspired entrepreneurship discusses the role of biomimicry in education, innovation, and product design covers applications in systems engineering and design, novel materials with applications in 3D printing, and bio-inspired architecture includes perspectives on sustainability detailing the role that bio-inspiration or biomimicry plays in sustainability

Biomedical Engineering

Bridging Medicine and Technology *Cambridge University Press*

Links basic science and engineering principles to show how engineers create new methods of diagnosis and therapy for human disease.

Democratizing Innovation *MIT Press*

The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In *Democratizing Innovation*, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all. The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative Commons license.

Introduction to Medical Imaging

Physics, Engineering and Clinical Applications *Cambridge University Press*

Covering the basics of X-rays, CT, PET, nuclear medicine,

ultrasound, and MRI, this textbook provides senior undergraduate and beginning graduate students with a broad introduction to medical imaging. Over 130 end-of-chapter exercises are included, in addition to solved example problems, which enable students to master the theory as well as providing them with the tools needed to solve more difficult problems. The basic theory, instrumentation and state-of-the-art techniques and applications are covered, bringing students immediately up-to-date with recent developments, such as combined computed tomography/positron emission tomography, multi-slice CT, four-dimensional ultrasound, and parallel imaging MR technology. Clinical examples provide practical applications of physics and engineering knowledge to medicine. Finally, helpful references to specialised texts, recent review articles, and relevant scientific journals are provided at the end of each chapter, making this an ideal textbook for a one-semester course in medical imaging.

From Lab to Market: The Process of Commercializing Medical Technologies *Independently Published*

This guide is written for biomedical innovators seeking to improve the lives of patients by translating innovative technologies into medical technologies. The contents are focused primarily on business principles that have been distilled from hundreds of projects as part of the Coulter Foundation's Translational Partners Program and Coulter Translational Reward Awards. To date, the Foundation has funded more than 600 projects, which in the first 11 years have raised close to \$6 billion in funding. The course Concept to Clinic: Commercializing Innovation (C3i), offered by the National Institutes of Health (NIH), forms the basis of this Guide. This course has helped hundreds of university innovators, engineers, clinicians, and scientists learn how to commercialize the technologies they have developed in a very demanding market. The C3i program is based on the Coulter commercialization process, an approach to biomedical research translation developed and continuously refined by the Foundation in collaboration with its academic partners across the country.

Biomaterials Science

An Introduction to Materials in Medicine *Academic Press*

The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. *Biomaterials Science*, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus. *Biomaterials Science*, 4th edition is an important update to the best-selling text, vital to the biomaterials' community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of

translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for most chapters

Design Driven Innovation

Changing the Rules of Competition by Radically Innovating What Things Mean *Harvard Business Press*

Until now, the literature on innovation has focused either on radical innovation pushed by technology or incremental innovation pulled by the market. In *Design-Driven Innovation: How to Compete by Radically Innovating the Meaning of Products*, Roberto Verganti introduces a third strategy, a radical shift in perspective that introduces a bold new way of competing. Design-driven innovations do not come from the market; they create new markets. They don't push new technologies; they push new meanings. It's about having a vision, and taking that vision to your customers. Think of game-changers like Nintendo's Wii or Apple's iPod. They overturned our understanding of what a video game means and how we listen to music. Customers had not asked for these new meanings, but once they experienced them, it was love at first sight. But where does the vision come from? With fascinating examples from leading European and American companies, Verganti shows that for truly breakthrough products and services, we must look beyond customers and users to those he calls "interpreters" - the experts who deeply understand and shape the markets they work in. *Design-Driven Innovation* offers a provocative new view of innovation thinking and practice.

Biomimicry

Innovation Inspired by Nature *Harper Collins*

Repackaged with a new afterword, this "valuable and entertaining" (New York Times Book Review) book explores how scientists are adapting nature's best ideas to solve tough 21st century problems. Biomimicry is rapidly transforming life on earth. Biomimics study nature's most successful ideas over the past 3.5 million years, and adapt them for human use. The results are revolutionizing how materials are invented and how we compute, heal ourselves, repair the environment, and feed the world. Janine Benyus takes readers into the lab and in the field with maverick thinkers as they: discover miracle drugs by watching what chimps eat when they're sick; learn how to create by watching spiders weave fibers; harness energy by examining how a leaf converts sunlight into fuel in trillionths of a second; and many more examples. Composed of stories of vision and invention, personalities and pipe dreams, Biomimicry is must reading for anyone interested in the shape of our future.

Talking to Humans

Success Starts with Understanding Your Customers

Talking to Humans is a practical guide to the qualitative side of customer development, an indispensable skill for vetting and improving any new startup or innovation. This book will teach you how to structure and run effective customer interviews, find candidates, and turn learnings into action.

Design of Biomedical Devices and Systems, Second Edition *CRC Press*

The design and functional complexity of medical devices and systems has increased during the past half century, evolving from the level of cardiac pacemakers to magnetic resonance imaging devices. Such life-saving advancements are

monumentally advantageous, but with so much at stake, a step-by-step manual for biomedical engineers is essential. This edition of a bestselling textbook utilizes a strong design perspective to provide designers with a thorough overview of the field, including topics related to databases, process analysis, and device improvement. Covers All Necessary Design Aspects for Advanced Biomedical Projects Designed primarily for senior bioengineering students in the formative stages of planning their design project, *Design of Biomedical Devices and Systems* is also beneficial to graduate students in the field and practitioners working with medical devices. This standard-setting resource includes: A variety of open-ended design problems and examples An overview of device definitions and reliability A discussion of testing and hardware verification and validation principles Detailed photographs and illustrations within each chapter Systematic approaches to device development and maintenance are mandated to ensure safe and effective devices for the patient, an economical and competitive success for the manufacturer, and a reliable, cost-effective investment for the user. This authoritative textbook answers the call. A solutions manual is available for instructors wishing to convert this reference to classroom use.

Inventing Medical Devices

A Perspective from India *Notion Press*

"This book comprehensively captures the essence of inventing medical devices through anecdotes, case studies and real life examples. A recommended must read for any aspiring entrepreneur who wishes to invent new medical devices in India." - Dr. Balram Bhargava, Padmashri, Professor of Cardiology, Cardiothoracic Sciences Centre, Executive Director, Stanford India Biodesign Centre, School of International Biodesign (SIB), All India Institute of Medical Sciences, New Delhi. "A timely resource- This is a remarkably readable and useful primer on medical device innovation in India, written by one of the emerging leaders in the field. The realistic perspective and practical suggestions in this book have arrived just in time for a health technology ecosystem that is in a substantial stage of growth." - Dr. Paul Yock, Founder and Director, Stanford Biodesign "Despite the stated focus as a book for doctors looking to engage with the MedTech ecosystem in India, this book has several teachings for engineers, product designers, business strategists, marketing folks and investors as well." - The Hans India In this book, the author shares his experiences, anecdotes, insights and failures while inventing medical devices in India over the last six years. The idea is to give entrepreneurs (clinicians, engineers, designers, business professionals) a realistic expectation of the time, money, co-ordination and teamwork required to develop a medical device in India. This book includes case studies, anecdotes, caricatures and a special "how I do it" section at the end of the book that gives step-by-step guidelines on how to identify a need, make clinical observations, create need statements, perform needs filtering, develop criteria, conceptualize a solution and take it to a proof of concept. This book is recommended for all Indian healthcare professionals, engineers and product designers who seek to solve unmet clinical challenges with new medical devices, but are unsure of how to go about taking their idea from the concept stage to an actual product. This book illustrates ways for engineers and designers to formally engage with doctors, and gives a comprehensive perspective of the path from ideation to commercialization.

The Three Rules

How Exceptional Companies Think *Penguin*

A data-driven assessment of what enables some companies to outperform over the long term in spite of comparable constraints analyzes the practices of thousands of high- and low-performing companies over a 45-year period to reveal unique thinking habits and counterintuitive strategies.

Biomimicry for Aerospace**Technologies and Applications** *Elsevier*

The solutions to technical challenges posed by flight and space exploration tend to be multidimensional, multifunctional, and increasingly focused on the interaction of systems and their environment. The growing discipline of biomimicry focuses on what humanity can learn from the natural world. Biomimicry for Aerospace: Technologies and Applications features the latest advances of bioinspired materials-properties relationships for aerospace applications. Readers will get a deep dive into the utility of biomimetics to solve a number of technical challenges in aeronautics and space exploration. Part I: Biomimicry in Aerospace: Education, Design, and Inspiration provides an educational background to biomimicry applied for aerospace applications. Part II: Biomimetic Design: Aerospace and Other Practical Applications discusses applications and practical aspects of biomimetic design for aerospace and terrestrial applications and its cross-disciplinary nature. Part III: Biomimicry and Foundational Aerospace Disciplines covers snake-inspired robots, biomimetic advances in photovoltaics, electric aircraft cooling by bioinspired exergy management, and surrogate model-driven bioinspired optimization algorithms for large-scale and complex problems. Finally, Part IV: Bio-Inspired Materials, Manufacturing, and Structures reviews nature-inspired materials and processes for space exploration, gecko-inspired adhesives, bioinspired automated integrated circuit manufacturing on the Moon and Mars, and smart deployable space structures inspired by nature. Introduces educational aspects of bio-inspired design for novel and practical technologies Presents a series of bio-inspired technologies applicable to the field of aerospace engineering Provides an introduction to nature-inspired design and engineering and its relevance to planning and developing the next generation of robotic and human space missions

Advances in Manufacturing and Processing of Materials and Structures *CRC Press*

This book cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes. It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures. A key development incorporated within this book is 3D printing, which is being used to produce complex parts including composites with odd shape fibers, as well as tissue and body organs. This book has been tailored for engineers, scientists and practitioners in a number of different fields such as aerospace, mechanical engineering, materials science and biomedicine. Biomimetic principles have also been integrated.

Sprint**How to Solve Big Problems and Test New Ideas in Just Five Days** *Simon and Schuster*

From three design partners at Google Ventures, a unique five-day process--called the sprint--for solving tough problems using design, prototyping, and testing ideas with customers.

Introduction to Biomaterials**Basic Theory with Engineering Applications** *Cambridge University Press*

A succinct introduction to the field of biomaterials engineering, packed with practical insights.

Materials Experience 2**Expanding Territories of Materials and Design** *Butterworth-Heinemann*

Materials Experience 2: Expanding Territories of Materials and Design is the follow-up companion to Materials Experience published in 2014. Materials experience as a concept has evolved substantially and is now mobilized to incorporate new ways of thinking and designing. Through all-new peer-reviewed chapters and project write-ups, the book presents critical perspectives on new and emerging relationships between designers, materials, and artifacts. Subtitled Expanding Territories of Materials and Design, the book examines in depth the increased prevalence of material-driven design practices, as well as the changing role of materials themselves, toward active and influential agents within and outside design processes. The book is essential reading for anyone involved in materials and design, containing 11 authoritative chapters and 18 illustrated accounts of contemporary research projects and practices. Presents both the knowledge and understanding of what 'new and emerging materials' are, where they come from, and how they can be used effectively in design Looks at how the professional responsibility of material selection is evolving into a more complex and active role of material 'creation' and 'appropriation' Explores how an elevated sensitivity to materials influence people's experiences of the designed world

Design for Tomorrow—Volume 3**Proceedings of ICoRD 2021** *Springer Nature*

This book showcases cutting-edge research papers from the 8th International Conference on Research into Design (ICoRD 2021) written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'21 has been "Design for Tomorrow". The world as we know it in our times is increasingly becoming connected. In this interconnected world, design has to address new challenges of merging the cyber and the physical, the smart and the mundane, the technology and the human. As a result, there is an increasing need for strategizing and thinking about design for a better tomorrow. The theme for ICoRD'21 serves as a provocation for the design community to think about rapid changes in the near future to usher in a better tomorrow. The papers in this book explore these themes, and their key focus is design for tomorrow: how are products and their development be addressed for the immediate pressing needs within a connected world? The book will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and industrial management who are interested in the new and emerging methods and tools for design of new products, systems and services.

Beastly Bionics**Rad Robots, Brilliant Biomimicry, and Incredible Inventions Inspired by Nature** *National Geographic Children's Books*

Discover how the natural world inspires innovation in science and technology to create the latest and greatest breakthroughs and discoveries in this exciting book. Did you know that scientists have developed a bionic tool shaped like an elephant's trunk that helps lift heavy objects? Or that the needle-like pointed beak of the kingfisher bird encouraged engineers in Japan to change the design of the Shinkansen "bullet trains" to reduce noise? Across multiple fields of study and methods of problem-solving, scientists are turning to biomimicry, or engineering inspired by biology or nature, to make all kinds of cool technological advancements. From robots that protect people and gather information to everyday inventions, like reflectors on the roads and ice-proof coatings for airplanes, to new sources of renewable energy, this book dives into the ways that nature can give us ideas on how to improve our world. Discover more than 40 examples of technology influenced by animals, learn about some of the incredible creatures who have inspired multiple creations, and meet some of the scientists and the stories behind their inventions.

"Each Man Cried Out to His God"

The Specialized Religion of Canaanite and Phoenician Seafarers *Brill*

Identifies a strong similarity of concerns between sailors of the two peoples despite the differences in geographical region, time, period, and culture. Draws on a framework derived from research on seafaring and religion in the classical Mediterranean world and on anthropological studies of the religion of traditional seafaring communities to document the survival of deities that control the elements and those that aid and protect voyagers. Developed from a doctoral dissertation. Annotation copyrighted by Book News, Inc., Portland, OR

Tissue Engineering *Pearson Education India*

Transport Phenomena in Biological Systems *Prentice Hall*

Presenting engineering fundamentals and biological applications in a unified way, this book provides learners with the skills necessary to develop and critically analyze models of biological transport and reaction processes. It covers topics in fluid mechanics, mass transport, and biochemical interactions, with engineering concepts motivated by specific biological problems. For researchers in biomedical engineering.

Modern Data Science with R *CRC Press*

From a review of the first edition: "Modern Data Science with R... is rich with examples and is guided by a strong narrative voice. What's more, it presents an organizing framework that makes a convincing argument that data science is a course distinct from applied statistics" (The American Statistician). Modern Data Science with R is a comprehensive data science textbook for undergraduates that incorporates statistical and computational thinking to solve real-world data problems. Rather than focus exclusively on case studies or programming syntax, this book illustrates how statistical programming in the state-of-the-art R/RStudio computing environment can be leveraged to extract meaningful information from a variety of data in the service of addressing compelling questions. The second edition is updated to reflect the growing influence of the tidyverse set of packages. All code in the book has been revised and styled to be more readable and easier to understand. New functionality from packages like sf, purrr, tidymodels, and tidytext is now integrated into the text. All chapters have been revised, and several have been split, re-organized, or re-imagined to meet the shifting

landscape of best practice.

Engineering in Medicine

Advances and Challenges *Academic Press*

Engineering in Medicine: Advances and Challenges documents the historical development, cutting-edge research and future perspectives on applying engineering technology to medical and healthcare challenges. The book has 22 chapters under 5 sections: cardiovascular engineering, neuroengineering, cellular and molecular bioengineering, medical and biological imaging, and medical devices. The challenges and future perspectives of engineering in medicine are discussed, with novel methodologies that have been implemented in innovative medical device development being described. This is an ideal general resource for biomedical engineering researchers at both universities and in industry as well as for undergraduate and graduate students. Presents a broad perspective on the state-of-the-art research in applying engineering technology to medical and healthcare challenges that cover cardiovascular engineering, neuroengineering, cellular and molecular bioengineering, medical and biological imaging, and medical devices. Presents the challenges and future perspectives of engineering in medicine. Written by members of the University of Minnesota's prestigious Institute of Engineering in Medicine (IEM), in collaboration with other experts around the world.

The Fifth Wave

The Evolution of American Higher Education *Johns Hopkins University Press*

Drawing from a variety of disciplines, including design, economics, public policy, organizational theory, science and technology studies, sociology, and even cognitive psychology and epistemology, The Fifth Wave is a must-read for anyone concerned with the future of higher education in our society.

Biomaterials

The Intersection of Biology and Materials Science *Pearson Prentice Hall*

Intended for use in an introductory course on biomaterials, taught primarily in departments of biomedical engineering. The book covers classes of materials commonly used in biomedical applications, followed by coverage of the biocompatibility of those materials with the biological environment. Finally, it covers some in-depth applications of biomaterials. It does all of this with an overall emphasis on tissue engineering. Co-authors, Johnna Temenoff and Antonios Mikos, are the 2010 Meriam/Wiley Distinguished Author Award Recipients for Biomaterials: The Intersection of Biology and Materials Science.

Global Political Economy

Evolution and Dynamics *Bloomsbury Publishing*

Offering an accessible introduction to both the historical roots and the contemporary dynamics of today's world economy, the extensively revised sixth edition of this bestselling textbook continues to lead the way in equipping students with the knowledge required to make sense of the fast-paced discipline of Global Political Economy. Illustrating the breadth of the subject, the book's authors – both highly regarded experts in the field – show how the national and international interact, while also placing an emphasis on the historical evolution of the world economy in order to appreciate the nuances of today's economic

structures. The global economy is traced from the Industrial Revolution through each phase of a shifting world order to the modern day. Then follows an engaging exploration of the dynamics of today's economy, including: trade, production, finance, labour, gender, development, the environment, security and governance. This takes into account the latest developments in the global economy, from automation and the challenges posed to the labour force, to artificial intelligence and the increasing complex, global supply chains of modern transnational firms. This is the most authoritative and accessible textbook on global political economy, making it the ideal companion for students at undergraduate and postgraduate levels, on politics,

international relations and related degrees. New to this Edition: - Extensively updated to feature the latest empirical developments, including rising economic nationalism, US trade wars with China, and populism. - Brand new boxed features illustrate the latest dynamics, including the impact of digital technologies, artificial intelligence and automation, and the growth and consequences of increasing inequality. - Greater coverage of the sustained threats to the liberal international order and likely future scenarios. Accompanying online resources for this title can be found at [bloomsburyonlineresources.com/global-political-economy-6e](https://www.bloomsburyonlineresources.com/global-political-economy-6e). These resources are designed to support teaching and learning when using this textbook and are available at no extra cost.