Discovering Science 2nd Edition

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Evaluation of Enzyme Inhibitors in Drug Discovery - Robert A. Copeland 2005-04-01 Vital information for discovering and optimizing new drugs "Understanding the data and the experimental details that support it has always been at the heart of good science and the assumption challenging process that leads from good science to drug discovery. This book helps

medicinal chemists and pharmacologists to do exactly that in the realm of enzyme inhibitors." - Paul S. Anderson, PhD This publication provides readers with a thorough understanding of enzyme-inhibitor evaluation to assist them in their efforts to discover and optimize novel drug therapies. Key topics such as competitive, noncompetitive, and uncompetitive inhibition,

slow binding, tight binding, and the use of Hill coefficients to study reaction stoichiometry are all presented. Examples of key concepts are presented with an emphasis on clinical relevance and practical applications. Targeted to medicinal chemists and pharmacologists, Evaluation of Enzyme Inhibitors in Drug Discovery focuses on the questions that they need to address: * What opportunities for inhibitor interactions with enzyme targets arise from consideration of the catalytic reaction mechanism? * How are inhibitors evaluated for potency, selectivity, and mode of action? * What are the advantages and disadvantages of specific inhibition modalities with respect to efficacy in vivo? * What information do medicinal chemists and pharmacologists need from their biochemistry and enzymology colleagues to effectively pursue lead optimization? Beginning with a discussion of the advantages of enzymes as targets for drug discovery, the publication then explores the reaction mechanisms of enzyme catalysis and the types of interactions that can occur between enzymes and inhibitory molecules that lend themselves to therapeutic use. Next are discussions of mechanistic issues that must be considered when designing enzyme assays for compound library screening and for lead optimization efforts. Finally, the publication delves into special forms of inhibition that are commonly encountered in drug discovery efforts, but can be easily overlooked or misinterpreted. This publication is designed to provide students with a solid foundation in enzymology and its role in drug discovery. Medicinal chemists and pharmacologists can refer to individual chapters as specific issues arise during the course of their ongoing drug discovery efforts.

Exploring Creation with Physical Science 2nd Edition - Jay L. Wile 2007

Discovering Physical Geography - Alan F. Arbogast 2017-05-08
With Wiley's Enhanced E-Text, you get all the

benefits of a downloadable, reflowable eBook with added resources to make your study time more effective, including: • Visual Concept Checks • Imbedded Glossary with clickable references & key words • Show & Hide Solutions with automatic feedback Arbogast's Discovering Physical Geography, 4th Edition provides interactive questions that help readers comprehend important Earth processes. The Fourth Edition continues to place great emphasis on how relevant physical geography is to each reader's life. With an enhanced focus on the interconnections between humans and their environment, this text includes increased coverage of population growth and its impact on the environment. Updated case studies are included, as well as new sections dealing with human interactions with solar energy, wind power, soils, and petroleum. This text is welcoming, taking readers on a tour of "discovery", and delivers content that is sound and based on the most current scientific research.

Discovering Science Bk 1 Mauritius - Rex M Heyworth 2008

Cancer Drug Design and Discovery - Stephen Neidle 2008
The ultimate source of information on the design of new anticancer agents, emphasising small molecules, this newest work covers recent notable successes resulting from the human genome and cancer genomics projects. These advances have provided information on targets involved in specific cancers that are leading to effective medicines for at least some of the common solid tumours. Unique sections explain the basic underlying principles of cancer drug development and provide a practical introduction to modern methods of drug design. Appealing to a broad audience, this is an excellent reference for translational researchers interested in cancer biology and medicine as well as students in pharmacy, pharmacology, or

medicinal and biological chemistry, and clinicians taking oncology options. * Covers both currently available drugs as well as those under development * Provides a clinical perspective on trials of new anticancer agents * Presents drug discovery examples through the use of case histories

Progress in Discovery Science - Setsuo Arikawa 2003-07-31
Annotation This book documents the scientific outcome and constitutes the final report of the Japanese research project on discovery science. During three years more than 60 scientists participated in the project and developed a wealth of new methods for knowledge discovery and data mining. The 52 revised full papers presented were carefully reviewed and span the whole range of knowledge discovery from logical foundations and inductive reasoning to statistical inference and computational learning. A broad variety of advanced applications are presented including knowledge discovery and data mining in very large databases, knowledge discovery in network environments, text mining, information extraction, rule mining, Web mining, image processing, and pattern recognition.
Discovering the Scientist Within - Gary W. Lewandowski, Jr. 2015-12-03
Discovering the Scientist Within offers an utterly unique approach to the research methods course. Rather than taking students through statistical methods one at a time, the authors provide a series of realistic and engaging case studies with each design-focused chapter presenting a single study start to finish.
Discovering Knowledge in Data - Daniel T. Larose 2005-01-28
Learn Data Mining by doing data mining Data mining can be revolutionary-but only when it's done right. The powerful black box data mining software now available can produce disastrously misleading results unless applied by a skilled and knowledgeable analyst. Discovering Knowledge in Data: An Introduction to Data

Mining provides both the practical experience and the theoretical insight needed to reveal valuable information hidden in large data sets. Employing a "white box" methodology and with real-world case studies, this step-by-step guide walks readers through the various algorithms and statistical structures that underlie the software and presents examples of their operation on actual large data sets. Principal topics include: * Data preprocessing and classification * Exploratory analysis * Decision trees * Neural and Kohonen networks * Hierarchical and k-means clustering * Association rules * Model evaluation techniques Complete with scores of screenshots and diagrams to encourage graphical learning, Discovering Knowledge in Data: An Introduction to Data Mining gives students in Business, Computer Science, and Statistics as well as professionals in the field the power to turn any data warehouse into actionable knowledge. An Instructor's Manual presenting detailed solutions to all the problems in the book is available online.

Leadership and the New Science - Margaret J. Wheatley 2010-06-21
A bestseller--more than 300,000 copies sold, translated into seventeen languages, and featured in the Los Angeles Times, Washington Post, Miami Herald, Harvard Business Review, Fast Company, and Fortune; Shows how discoveries in quantum physics, biology, and chaos theory enable us to deal successfully with change and uncertainty in our organizations and our lives; Includes a new chapter on how the new sciences can help us understand and cope with some of the major social challenges of our timesWe live in a time of chaos, rich in potential for new possibilities. A new world is being born. We need new ideas, new ways of seeing, and new relationships to help us now. New science--the new discoveries in biology, chaos theory, and quantum physics that are changing our understanding of how the world works--offers

this guidance. It describes a world where chaos is natural, where order exists ''for free.'' It displays the intricate webs of cooperation that connect us. It assures us that life seeks order, but uses messes to get there.Leadership and the New Science is the bestselling, most acclaimed, and most influential guide to applying the new science to organizations and management. In it, Wheatley describes how the new science radically alters our understanding of the world, and how it can teach us to live and work well together in these chaotic times. It will teach you how to move with greater certainty and easier grace into the new forms of organizations and communities that are taking shape.

Exploring Science - Michael O'Callaghan 2007

The Discovery of Global Warming - Weart 2003 The author of Scientists in Power and Nuclear Fear illuminates the scientific process that reached consensus in 2001 about global warming by assembling evidence from around the world to show the complex workings of the earth's climate and environment. (Ecology & Environment)

God & the Big Bang - Daniel Chanan Matt 1996 By drawing on modern cosmology and ancient Kabbalah, the author shows how science and religion can together enrich our spiritual awareness and help us recover a sense of wonder and find our place in the universe.

Proteomic and Metabolomic Approaches to Biomarker Discovery - Haleem J Issaq 2013-05-20 Proteomic and Metabolomic Approaches to Biomarker Discovery demonstrates how to leverage biomarkers to improve accuracy and reduce errors in research. Disease biomarker discovery is one of the most vibrant and important areas of research today, as the identification of reliable biomarkers has an enormous impact on disease diagnosis, selection of treatment regimens, and therapeutic monitoring. Various techniques are used in the

biomarker discovery process, including techniques used in proteomics, the study of the proteins that make up an organism, and metabolomics, the study of chemical fingerprints created from cellular processes. Proteomic and Metabolomic Approaches to Biomarker Discovery is the only publication that covers techniques from both proteomics and metabolomics and includes all steps involved in biomarker discovery, from study design to study execution. The book describes methods, and presents a standard operating procedure for sample selection, preparation, and storage, as well as data analysis and modeling. This new standard effectively eliminates the differing methodologies used in studies and creates a unified approach. Readers will learn the advantages and disadvantages of the various techniques discussed, as well as potential difficulties inherent to all steps in the biomarker discovery process. A vital resource for biochemists, biologists, analytical chemists, bioanalytical chemists, clinical and medical technicians, researchers in pharmaceuticals, and graduate students, Proteomic and Metabolomic Approaches to Biomarker Discovery provides the information needed to reduce clinical error in the execution of research. Describes the use of biomarkers to reduce clinical errors in research Includes techniques from a range of biomarker discoveries Covers all steps involved in biomarker discovery, from study design to study execution

Discovery Science - Vincent Corruble 2007-09-04 This book constitutes the refereed proceedings of the 10th International Conference on Discovery Science, DS 2007, held in Sendai, Japan, in October 2007, co-located with the 18th International Conference on Algorithmic Learning Theory, ALT 2007. The papers cover all issues in the area of development and analysis of methods for intelligent data analysis, knowledge discovery and machine learning, as well as their application to scientific knowledge discovery.

Discovery Science - Achim Hoffmann 2005-10-24 This book constitutes the refereed proceedings of the 8th International Conference on Discovery Science, DS 2005, held in Singapore in October 2005, co-located with the International Conference on Algorithmic Learning Theory (ALT 2005). The 21 revised long papers and the 6 revised regular papers presented together with 9 project reports and 5 invited papers were carefully reviewed and selected from 112 submissions. The papers cover all issues in the area of automating scientific discovery or working on tools for supporting the human process of discovery in science.

Discovery Science - Klaus P. Jantke 2003-06-30 These are the conference proceedings of the 4th International Conference on Discovery Science (DS 2001). Although discovery is naturally ubiquitous in s- ence, and scientific discovery itself has been subject to scientific investigation for centuries, the term Discovery Science is comparably new. It came up in conn- tion with the Japanese Discovery Science project (cf. Arikawa's invited lecture on The Discovery Science Project in Japan in the present volume) some time during the last few years. Setsuo Arikawa is the father in spirit of the Discovery Science conference series. He led the above mentioned project, and he is currently serving as the chairman of the international steering committee for the Discovery Science c- ference series. The other members of this board are currently (in alphabetical order) Klaus P. Jantke, Masahiko Sato, Ayumi Shinohara, Carl H. Smith, and Thomas Zeugmann. Colleagues and friends from all over the world took the opportunity of me- ing for this conference to celebrate Arikawa's 60th birthday and to pay tribute to his manifold contributions to science, in general, and to Learning Theory and Discovery Science, in particular. Algorithmic Learning Theory (ALT, for short) is another conference series initiated by Setsuo Arikawa in Japan in 1990. In 1994, it amalgamated with the conference series on

Analogical and Inductive Inference (AII), when ALT was held outside of Japan for the first time.

Science Arts - MaryAnn F. Kohl 1993-06-01 "ScienceArts" builds upon natural curiosity as children experience and explore basic science concepts as they create over 200 beautiful and amazing art experiments. Projects use common household materials and art supplies. The art activities are open-ended and easy to do with one science-art experiment per page, fully illustrated and kid-tested. The book inclues three indexes and an innovative charted Table of Contents. Suitable for home, school, museum programs, or childcare, all ages. Kids call this the "ooo-ahhh" book. Examples of projects include: - Crystal Bubbles - Dancing Rabbits - Building Beans - Magnetic Rubbing - Stencil Leaves - Magic Cabbage - Marble Sculpture - Immiscibles - Paint Pendulum - Ice Structures - Bottle Optics - Erupting Colors - Chromatography 1993 Benjamin Franklin Gold Award, Education/Teaching/Academic 1993 Benjamin Franklin Silver Award, Interior Design 1993 Benjamin Franklin Silver Award, Book Cover 1993 Washington Press Communicator Award, First Place Winner, Non-Fiction Book

Discovering Psychology: The Science of Mind - John T. Cacioppo 2012-03-16 In this fresh new offering to the Intro Psychology course, authors John Cacioppo and Laura Freberg portray psychology as being an integrative science in two ways. First, they have written a text that reflects psychology's rightful place as a hub science that draws from and is cited by research in many other fields. Second, this text presents psychology as a unified science that seeks a complete understanding of the human mind, rather than as a loosely organized set of autonomous subspecialties. As psychology moves rapidly toward maturity as an integrative, multidisciplinary field, the introductory course offers an opportunity to teach all of psychology in one place and at one time. This text reflects that evolution--and the

authors' excitement about it. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Discovery Science - Nada Lavrač 2006-09-29 This book constitutes the refereed proceedings of the 9th International Conference on Discovery Science, DS 2006, held in Barcelona, Spain in October 2006, co-located with the 17th International Conference on Algorithmic Learning Theory, ALT 2006. The 23 revised long papers and the 18 revised regular papers presented together with five invited papers were carefully reviewed and selected from 87 submissions.

Exploring Science 1 - CENGAGE Learning 2014-11-06
This student edition covers 100% of Grade 1 Next Generation Science Standards in Spanish.
Exploring Science 4 - CENGAGE Learning 2014-03-26
This student edition covers 100% of Grade 4 Next Generation Science Standards.
Exploring Science in Early Childhood - Karen Lind 2000
The new third edition of this best-selling book focuses on early childhood education from birth through age eight. Based on theories of child development, this resource depicts how to integrate scientific concepts with music and movement, language arts, social studies, and art. The book uses a problem-solving approach to discuss constructive concepts along with a balance of naturalistic, informal, and structured activities and experiences. The importance of literature and writing in science education is emphasized. Also, the book describes how to use dramatic play and thematic projects as vehicles for integration. Key Features include: -- compatible with national standards and guidelines -- an emphasis is placed on problem solving -- a developmental sequence guides users in planning and instruction -- developmentally appropriate assessment,

evaluation, and instructional strategies for the national movement toward authentic assessment

Discovering the Cosmos - Robert C. Bless 1996
This text has two objectives: to describe the leading ideas and concepts of modern astronomy; and to indicate how astronomy in particular and physical science in general developed, what its methods are, its goals and its limitations.

QCA Year 9 - Mark Levesley 2002
Motivating pupils of all abilities.

Exploring Science for the New Junior Cycle - Michael O'Callaghan 2016

Geographic Data Mining and Knowledge Discovery - Harvey J. Miller 2009-05-27
The Definitive Volume on Cutting-Edge Exploratory Analysis of Massive Spatial and Spatiotemporal DatabasesSince the publication of the first edition of Geographic Data Mining and Knowledge Discovery, new techniques for geographic data warehousing (GDW), spatial data mining, and geovisualization (GVis) have been developed. In addition, there has bee

The Ringed Planet, Second Edition - Joshua Colwell 2019-11-22
On September 15, 2017, the Cassini spacecraft sent its final transmission to the Earth as it entered the atmosphere of Saturn, ending its historic 13 year mission at the ringed planet. This book is a beautifully illustrated journey of discovery through the Saturn system. Cassini's instruments have revealed never seen before details, including the only extraterrestrial lakes known in the solar system, and have provided unprecedented views of the rings, moons, and the planet itself. Results from Cassini's dramatic Grand Finale of ring-grazing and planet-skimming orbits are included in this expanded and updated second edition. Saturn is the jewel of the solar system. The Cassini spacecraft has been exploring the ringed planet and its moons and rings since 2004 and has helped us solve

many of its mysteries while generating a wealth of new questions. Cassini has observed the bizarre mountains of Iapetus, the geysers of Enceladus, the lakes of Titan, and the dynamic and evolving rings. Along the way, this book explores and explains the fundamental processes that shape not just the Saturn system, but planets and moons in general. Written for the general audience with an emphasis on the fundamental physics of planetary systems, The Ringed Planet is a fascinating exploration of the Saturn system that places Saturn in the context of the solar system as a whole. Cassini's instruments have revealed Enceladus and Titan to have subsurface oceans of liquid water. Its cameras have returned stunning images of rings in turmoil, a tumbling moon, the only extraterrestrial lakes known in the solar system, a hexagon of clouds, some of the highest mountains in the solar system and much more. More than a journey of discovery at Saturn, The Ringed Planet is also an introduction to how planetary systems work.

QCA Year 9 - Mark Levesley 2002
Comprising a pupil's book, teacher's guide and copymaster file for each year, this series covers all of the Sc1 to Sc4 requirements and incorporates the ideas and evidence statements of the revised National Curriculum (formerly part of Sc0). The course also supports the content and approach of the QCA Scheme of Work.

Discovering Biological Psychology - Laura Freberg 2009-04-01
To help you review concepts and succeed on exams, this guide provides expanded chapter outlines correlated to learning objectives from the text, self-quizzing materials not found on the Student Book Companion Website, and answers to the text's Interim Summary and Chapter Review questions. It also includes new coloring and labeling exercises based on text art.

Discovery Science - Steffen Lange 2003-08-03
This volume contains the papers presented at

the 5th International Conference on Discovery Science (DS 2002) held at the Mövenpick Hotel, Lub¨eck, G- many, November 24-26, 2002. The conference was supported by CorpoBase, DFKI GmbH, and JessenLenz. The conference was collocated with the 13th International Conference on - gorithmic Learning Theory (ALT 2002). Both conferences were held in parallel and shared?ve invited talks as well as all social events. The combination of ALT 2002 and DS 2002 allowed for a comprehensive treatment of recent de- lopments in computational learning theory and machine learning - some of the cornerstones of discovery science. In response to the call for papers 76 submissions were received. The program committee selected 17 submissions as regular papers and 29 submissions as poster presentations of which 27 have been submitted for publication. This selection was based on clarity, signi?cance, and originality, as well as on relevance to the rapidly evolving?eld of discovery science.

Discovery Science - Petra Kralj Novak 2019-10-18
This book constitutes the proceedings of the 22nd International Conference on Discovery Science, DS 2019, held in Split, Coratia, in October 2019. The 21 full and 19 short papers presented together with 3 abstracts of invited talks in this volume were carefully reviewed and selected from 63 submissions. The scope of the conference includes the development and analysis of methods for discovering scientific knowledge, coming from machine learning, data mining, intelligent data analysis, big data analysis as well as their application in various scientific domains. The papers are organized in the following topical sections: Advanced Machine Learning; Applications; Data and Knowledge Representation; Feature Importance; Interpretable Machine Learning; Networks; Pattern Discovery; and Time Series.
Discovery Science - Setsuo Arikawa 2003-07-31
This book constitutes the refereed proceedings

of the First International Conference on Discovery Science, DS'98, held in Fukuoka, Japan, in December 1998. The volume presents 28 revised full papers selected from a total of 76 submissions. Also included are five invited contributions and 34 selected poster presentations. The ultimate goal of DS'98 and this volume is to establish discovery science as a new field of research and development. The papers presented relate discovery science to areas as formal logic, knowledge processing, machine learning, automated deduction, searching, neural networks, database management, information retrieval, intelligent network agents, visualization, knowledge discovery, data mining, information extraction, etc.

Applied Anatomy & Physiology for Manual Therapists - Pat Archer 2012-03-14
Provides all of the anatomy and physiology knowledge a massage therapist needs in a way they can better understand! Applied Anatomy and Physiology for Manual Therapists is a clear, accurate, simple, and comprehensive A&P textbook that focuses on the needs of students in manual therapy education programs. It is a focused text that deliberately emphasizes the information manual therapists need to be familiar with in order to understand the benefits, effects, indications, and contraindications of their specific form of manual therapy. The text includes detailed information not covered in standard A&P texts, adding an entire chapter on neuromuscular and myofascial connections (Chapter 8), and separating the structure and function of the lymphatic system (Chapter 11) from immunity and healing (Chapter 12). This, along with chapter features such as Manual Therapy Applications, Pathology Alerts, and What Do You Think questions, help readers build bridges between the scientific facts and the application of that information to their therapeutic practice.

Discovering Computer Science - Jessen Havill

2020-10-12

"Havill's problem-driven approach introduces algorithmic concepts in context and motivates students with a wide range of interests and backgrounds." -- Janet Davis, Associate Professor and Microsoft Chair of Computer Science, Whitman College "This book looks really great and takes exactly the approach I think should be used for a CS 1 course. I think it really fills a need in the textbook landscape." -- Marie desJardins, Dean of the College of Organizational, Computational, and Information Sciences, Simmons University "Discovering Computer Science is a refreshing departure from introductory programming texts, offering students a much more sincere introduction to the breadth and complexity of this ever-growing field." -- James Deverick, Senior Lecturer, The College of William and Mary "This unique introduction to the science of computing guides students through broad and universal approaches to problem solving in a variety of contexts and their ultimate implementation as computer programs." -- Daniel Kaplan, DeWitt Wallace Professor, Macalester College Discovering Computer Science: Interdisciplinary Problems, Principles, and Python Programming is a problem-oriented introduction to computational problem solving and programming in Python, appropriate for a first course for computer science majors, a more targeted disciplinary computing course or, at a slower pace, any introductory computer science course for a general audience. Realizing that an organization around language features only resonates with a narrow audience, this textbook instead connects programming to students' prior interests using a range of authentic problems from the natural and social sciences and the digital humanities. The presentation begins with an introduction to the problem-solving process, contextualizing programming as an essential component. Then, as the book progresses, each chapter guides students through solutions to

increasingly complex problems, using a spiral approach to introduce Python language features. The text also places programming in the context of fundamental computer science principles, such as abstraction, efficiency, testing, and algorithmic techniques, offering glimpses of topics that are traditionally put off until later courses. This book contains 30 well-developed independent projects that encourage students to explore questions across disciplinary boundaries, over 750 homework exercises, and 300 integrated reflection questions engage students in problem solving and active reading. The accompanying website — https://www.discoveringcs.net — includes more advanced content, solutions to selected exercises, sample code and data files, and pointers for further exploration.

Drug Discovery and Development - E-Book - Raymond G Hill 2012-07-20
The modern pharmacopeia has enormous power to alleviate disease, and owes its existence almost entirely to the work of the pharmaceutical industry. This book provides an introduction to the way the industry goes about the discovery and development of new drugs. The first part gives a brief historical account from its origins in the mediaeval apothecaries' trade, and discusses the changing understanding of what we mean by disease, and what therapy aims to achieve, as well as summarising case histories of the discovery and development of some important drugs. The second part focuses on the science and technology involved in the discovery process: the stages by which a promising new chemical entity is identified, from the starting point of a medical need and an idea for addressing it. A chapter on biopharmaceuticals, whose discovery and development tend to follow routes somewhat different from synthetic compounds, is included here, as well as accounts of patent issues that arise in the discovery phase, and a chapter on research management in this environment. The

third section of the book deals with drug development: the work that has to be undertaken to turn the drug candidate that emerges from the discovery process into a product on the market. The definitive introduction to how a pharmaceutical company goes about its business of discovering and developing drugs. The second edition has a new editor: Professor Raymond Hill ● non-executive director of Addex Pharmaceuticals, Covagen and of Orexo AB ● Visiting Industrial Professor of Pharmacology in the University of Bristol ● Visiting Professor in the School of Medical and Health Sciences at the University of Surrey ● Visiting Professor in Physiology and Pharmacology at the University of Strathclyde ● President and Chair of the Council of the British Pharmacological Society ● member of the Nuffield Council on Bioethics and the Advisory Council on Misuse of Drugs. New to this edition: Completely rewritten chapter on The Role of Medicinal Chemistry in the Drug Discovery Process. New topic - DMPK Optimization Strategy in drug discovery. New chapter on Scaffolds: Small globular proteins as antibody substitutes. Totally updated chapters on Intellectual Property and Marketing 50 new illustrations in full colour Features Accessible, general guide to pharmaceutical research and development. Examines the interfaces between cost and social benefit, quality control and mass production, regulatory bodies, patent management, and all interdisciplinary intersections essential to effective drug development. Written by a strong team of scientists with long experience in the pharmaceutical industry. Solid overview of all the steps from lab bench to market in an easy-to-understand way which will be accessible to non-specialists. From customer reviews of the previous edition: '... it will have everything you need to know on this module. Deeply referenced and, thus, deeply reliable. Highly Commended in the medicine category of the BMA 2006 medical

book competition Winner of the Royal Society of Medicine Library Prize for Medical Book of the Year

Drugs - Rick Ng 2005-03-11
Statistics show that out of five thousand compounds with initial promise, five will go into human clinical trials, and only one will become an approved drug. This tiny fraction illustrates the huge complexities involved in bringing a drug to market, a process that brings together scientific research, medical ethics, business, and various regulatory agencies. Drugs-From Discovery to Approval presents a clear, step-by-step overview of the entire process. Using simple language, this comprehensive guide introduces basic concepts, then moves on to discuss disease target selection and the discovery processes for both small and large molecule drugs. Subsequent chapters explain preclinical studies, clinical trials, regulatory issues, good manufacturing practices (GMPs), and perspectives on the future. Coverage also includes: * A helpful listing of current FDA and European guidelines * A special section on regulatory authorities and processes in Japan and China * Rich illustrations throughout, including more than ninety figures and tables * Useful appendices on the history of drug discovery and development * Representative examples of drug mechanisms in action Written for professionals in the pharmaceutical industry, and readily accessible for students of pharmacy or medicine and others interested in drug discovery, Drugs-From Discovery to Approval represents a practical and approachable reference on this important process.

Reinventing Discovery - Michael Nielsen 2020-04-07
"Reinventing Discovery argues that we are in the early days of the most dramatic change in how science is done in more than 300 years. This change is being driven by new online tools, which are transforming and radically accelerating scientific discovery"--

Exploring Science Through Science Fiction - Barry B. Luokkala 2013-10-23
The material in this book forms the basis of an interdisciplinary, college-level course, which uses science fiction film as a vehicle for exploring science concepts. Unlike traditional introductory-level courses, the science content is arranged according to major themes in science fiction, with a deliberate progression from the highly objective and discipline-specific (e.g. Reference Frames; Physics of Space Travel and Time Travel) to the very multi-disciplinary and thought-provoking (e.g. Human Teleportation; Science and Society). Over 100 references to science fiction films and television episodes are included, spanning more than 100 years of cinematic history. Some of these are conducive to calculations (solutions included).

A Love of Discovery - Robert Karplus 2002-01-31
Robert Karplus, a professor of physics at the University of California, Berkeley, USA, became a leader in the movement to reform elementary school science in the 1960s. This book selects the enduring aspects of his work and presents them for the scientists and science educators of today. In an era when `science education for ALL students' has become the clarion call, the insights and works of Robert Karplus are as relevant now as they were in the 1960s, '70s, and '80s. This book tries to capture the essence of his life and work and presents selections of his published articles in a helpful context.

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