Valuation In Life Sciences A Practical Guide

Calculus for the Life Sciences: A Modeling ApproachUndergraduate Mathematics for the Life SciencesThe National Science Foundation and the Life SciencesLife Sciences and Related FieldsA Practical Philosophy for the Life SciencesPolitics and the Life SciencesResearch Handbook on Intellectual Property and the Life SciencesInnovative Research in Life SciencesPhysics of the Life SciencesLife Sciences ReportSome New Technologies and Their Promise for the Life SciencesRECENT TRENDS IN LIFE SCIENCES RESEARCHLife Sciences Space Station Planning DocumentFungal Macromolecule Applications in Life SciencesLife Sciences and SpaceGlobal Transformations in the Life Sciences, 1945–1980Students learning science : a report on policies and practices in U.S. schoolsInnovation, Regional Development and the Life SciencesDual Use Research of Concern in the Life SciencesLeadership in the Life Sciences James L. Cornette Glenn Ledder United States. Congress. Senate. Committee on Government Operations International Union of Microbiological Societies Wim J. van der Steen Robert H. Blank Duncan Matthews E. Andrew Balas Jay Newman United States. President's Science Advisory Committee. Life Sciences Panel Dr. R.B. Tripathi Jameel R. Al-Obaidi United States. Congress. House. Committee on Science and Astronautics Patrick Manning Kean Birch National Academies of Sciences, Engineering, and Medicine Brian D. Smith

Calculus for the Life Sciences: A Modeling Approach Undergraduate Mathematics for the Life Sciences The National Science Foundation and the Life Sciences Life Sciences and Related Fields A Practical Philosophy for the Life Sciences Politics and the Life Sciences Research Handbook on Intellectual Property and the Life Sciences Innovative Research in Life Sciences Physics of the Life Sciences Life Sciences Report Some New Technologies and Their Promise for the Life Sciences RECENT TRENDS IN LIFE SCIENCES RESEARCH Life Sciences Space Station Planning Document Fungal Macromolecule Applications in Life Sciences Life Sciences and Space Global Transformations in the Life Sciences, 1945–1980 Students learning science : a report on policies and practices in U.S. schools Innovation, Regional Development and the Life Sciences Dual Use Research of Concern in the Life Sciences Leadership in the Life Sciences *James L. Cornette Glenn Ledder United States. Congress. Senate. Committee on Government Operations International Union of Microbiological Societies Wim J. van der Steen Robert H. Blank Duncan Matthews E. Andrew Balas Jay Newman United States. President's Science Advisory Committee. Life Sciences Panel Dr. R.B. Tripathi Jameel R. Al-Obaidi United States. Congress. House. Committee on Science and Astronautics Patrick Manning Kean Birch National Academies of Sciences, Engineering, and Medicine Brian D. Smith*

calculus for the life sciences is an entire reimagining of the standard calculus sequence with the needs of life science students as the fundamental organizing

principle those needs according to the national academy of science include the mathematical concepts of change modeling equilibria and stability structure of a system interactions among components data and measurement visualization and algorithms this book addresses in a deep and significant way every concept on that list the book begins with a primer on modeling in the biological realm and biological modeling is the theme and frame for the entire book the authors build models of bacterial growth light penetration through a column of water and dynamics of a colony of mold in the first few pages in each case there is actual data that needs fitting in the case of the mold colony that data is a set of photographs of the colony growing on a ruled sheet of graph paper and the students need to make their own approximations fundamental questions about the nature of mathematical modeling trying to approximate a real world phenomenon with an equation are all laid out for the students to wrestle with the authors have produced a beautifully written introduction to the uses of mathematics in the life sciences the exposition is crystalline the problems are overwhelmingly from biology and interesting and rich and the emphasis on modeling is pervasive an instructor s manual for this title is available electronically to those instructors who have adopted the textbook for classroom use please send email to textbooks ams org for more information online question content and interactive step by step tutorials are available for this title in webassign webassign is a leading provider of online instructional tools for both faculty and students

there is a gap between the extensive mathematics background that is beneficial to biologists and the minimal mathematics background biology students acquire in their courses the result is an undergraduate education in biology with very little quantitative content new mathematics courses must be devised with the needs of biology students in mind in this volume authors from a variety of institutions address some of the problems involved in reforming mathematics curricula for biology students the problems are sorted into three themes models processes and directions it is difficult for mathematicians to generate curriculum ideas for the training of biologists so a number of the curriculum models that have been introduced at various institutions comprise the models section processes deals with taking that great course and making sure it is institutionalized in both the biology department as a requirement and in the mathematics department as a course that will live on even if the creator of the course is no longer on the faculty directions looks to the future with each paper laying out a case for pedagogical developments that the authors would like to see

during the last decade national and international scientific organizations have become increasingly engaged in considering how to respond to the biosecurity implications of developments in the life sciences and in assessing trends in science and technology s t relevant to biological and chemical weapons nonproliferation the latest example is an international workshop trends in science and technology relevant to the biological weapons convention held october 31 november 3 2010 at the institute of biophysics of the chinese academy of sciences in beijing life sciences and related fields summarizes the workshop plenary and breakout discussion sessions held during this convention given the immense diversity of current research and development the report is only able to provide an overview of the areas of science and technology the committee believes are potentially relevant to the future of the biological and toxic weapons convention bwc although there is an effort

to identify areas that seemed particularly ripe for further exploration and analysis the report offers findings and conclusions organized around three fundamental and frequently cited trends in s t that affect the scope and operation of the convention the rapid pace of change in the life sciences and related fields the increasing diffusion of life sciences research capacity and its applications both internationally and beyond traditional research institutions and the extent to which additional scientific and technical disciplines beyond biology are increasingly involved in life sciences research the report does not make recommendations about policy options to respond to the implications of the identified trends the choice of such responses rests with the 164 states parties to the convention who must take into account multiple factors beyond the project s focus on the state of the science

this book integrates philosophy of biology and philosophy of medicine with the purpose of making philosophy practical for students and scientists it contains many exercises and examples from live science much attention is given to the translation of scientific reasoning into the language of philosophy the author shows that philosophical models can be used to evaluate science if the limitations of the models are recognized so they can be applied in the proper context on the other hand some philosophical views of science need to be corrected by science the book puts philosophy and science in a broader perspective it integrates practical philosophy and ethics in applications to live science and uncovers limitations of current ethical theory

this book examines the development of biopolitics as an academic perspective within political science it reviews the work of the leading proponents of this perspective and presents a comprehensive view of biopolitics as a framework to structure political inquiry

intellectual property ip is a key component of the life sciences one of the most dynamic and innovative fields of technology today at the same time the relationship between ip and the life sciences raises new public policy dilemmas the research handbook on intellectual property and the life sciences comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines the research handbook focuses on the relationship between ip and the life sciences in europe and the united states complemented by country specific case studies on australia brazil china india japan kenya south africa and thailand to provide a truly international perspective

i thoroughly enjoyed reading this book as it has taken me on a journey through time across the globe and through multiple disciplines indeed we need to be thinking about these concepts and applying them every day to do our jobs better farah magrabi macquarie university australia the reader will find intriguing not only the title but also the content of the book i m also pleased that public health and even more specifically epidemiology has an important place in this ambitious discussion elena andresen oregon health science university usa this book is very well written and addresses an important topic it presents many reasons why basic scientists researchers should establish collaborations and access information outside traditional means and not limit thinking but rather expand such and perhaps develop more innovative and translational research ventures that will advance science and not move it laterally gerald pepe eastern virginia medical school usa this book

gathers logically and presents interestingly with many examples the qualities and attitudes a researcher must possess in order to become successful on the long run the deep and carefully reexamined research will be the one that lasts zoltán néda babeş bolyai university romania i really liked the five pillars delineating the components of humanism in research this book has made a major contribution to the research ethics literature david fleming university of missouri usa a comprehensive review of the research phase of life sciences from design to discovery with suggestions to improve innovation this vital resource explores the creative processes leading to biomedical innovation identifies the obstacles and best practices of innovative laboratories and supports the production of effective science innovative research in life sciences draws on lessons from 400 award winning scientists and research from leading universities the book explores the innovative process in life sciences and puts the focus on how great ideas are born and become landmark scientific discoveries the text provides a unique resource for developing professional competencies and applied skills of life sciences researchers the book examines what happens before the scientific paper is submitted for publication or the innovation becomes legally protected this phase is the most neglected but most exciting in the process of scientific creativity and innovation the author identifies twelve competencies of innovative biomedical researchers that described and analyzed this important resource highlights the research phase from design to discovery that precedes innovation disclosure offers a step by step explanation of how to improve innovation offers solutions for improving research and innovation productivity in the life sciences contains a variety of statistical databases and a vast number of stories about individual discoveries includes a process of published studies and national statistics of biomedical research and reviews the performance of research labs and academic institutions written for academics and researchers in biomedicine pharmaceutical science life sciences drug discovery pharmacology innovative research in life sciences offers a guide to the creative processes leading to biomedical innovation and identifies the best practices of innovative scientists and laboratories

each chapter has three types of learning aides for students open ended questions multiple choice questions and quantitative problems there is an average of about 50 per chapter there are also a number of worked examples in the chapters averaging over 5 per chapter and almost 600 photos and line drawings

recent trends in life sciences research is more inclined towards interdisciplinary studies recent developments in the technologies have led to a better understanding of living systems and this has removed the demarcations between various disciplines of life sciences a new trend in life science incorporates biological research involving a merger of diverse disciplines such as ecology microbiology toxicology and meteorology etc the book encompasses topics on habitat ecology biology of apis and apiculture cyanobacterial diversity adaptation of microorganisms antibacterial activity fungal glucose prawn culture concept of ecosystem ozone depletion and global warming halophilic archaea flourish in hypersaline environment and lycopene preventive effects against cadmium injury in different tissues microbial enzymes and their applications phytochemical and antibacterial activity distributed throughout fifteen chapters for the benefits of graduate and postgraduate students as well as young researchers and scientists in addition this book provide newer techniques and the use of modern tools in achieving the potential of ecology microbiology toxicology apiculture aquaculture meteorology extremophiles immunotheraphy of cancer and marine bacterial enzymes this is all used to

understand the challenges found in life sciences

fungal macromolecule applications in life sciences biological activity and medical industrial and agricultural applications provides a comprehensive guide to the diverse applications of fungal macromolecules such as proteins lipid carbohydrates and nucleic acids chapters include an introduction to the background and importance of fungal macromolecules in various life science fields followed by a detailed overview of the methods for isolating characterizing and assessing the structural and functional characteristics of fungal macromolecules the book discusses the practical applications of fungal macromolecules in the biomedical agricultural and industry sectors it explores potential uses of fungal macromolecules as pharmaceuticals anti cancer agents and inhibitors of bacterial biofilm formation as well as in plant disease management crop development enzyme production biosurfactants and sustainable and functional food production the book also examines the antimicrobial properties of fungal macromolecules and their role in managing disease and stimulating human immunology this comprehensive and multidisciplinary coverage makes fungal macromolecule applications in life sciences a valuable resource for scientists professionals and advanced students across various fields including microbiology biotechnology biochemistry pharmacology agriculture food science and biomaterials looking to enhance their understanding of fungal macromolecules in life sciences and bridge the gap between theory and practical application offers a comprehensive understanding of fungal macromolecules proteins lipid carbohydrates and nucleic acids including their classification isolation and structural and functional characterization discusses the biological activities and properties of fungal macromolecules including their potential benefits and side effects provides practical guidance on how to extract purify and utilize fungal macromolecules in various applications

the second half of the twentieth century brought extraordinary transformations in knowledge and practice of the life sciences in an era of decolonization mass social welfare policies and the formation of new international institutions such as unesco and the who monumental advances were made in both theoretical and practical applications of the life sciences including the discovery of life s molecular processes and substantive improvements in global public health and medicine combining perspectives from the history of science and world history this volume examines the impact of major world historical processes of the postwar period on the evolution of the life sciences contributors consider the long term evolution of scientific practice research and innovation across a range of fields and subfields in the life sciences and in the context of cold war anxieties and ambitions together they examine how the formation of international organizations and global research programs allowed for transnational exchange and cooperation but in a period rife with competition and nationalist interests which influenced dramatic changes in the field as the postcolonial world order unfolded

the life sciences is an industrial sector that covers the development of biological products and the use of biological processes in the production of goods services and energy this sector is frequently presented as a major opportunity for policy makers to upgrade and renew regional economies leading to social and economic development through support for high tech innovation innovation regional development and the life sciences analyses where innovation happens in the life sciences

why it happens in those places and what this means for regional development policies and strategies focusing on the uk and europe its arguments are relevant to a variety of countries and regions pursuing high tech innovation and development policies the book s theoretical approach incorporates diverse geographies e g global national and regional and political economic forces e g discourses governance and finance in order to understand where innovation happens in the life sciences where and how value circulates in the life sciences and who captures the value produced in life sciences innovation this book will be of interest to researchers students and policy makers dealing with regional local economic development

the potential misuse of advances in life sciences research is raising concerns about national security threats dual use research of concern in the life sciences current issues and controversies examines the u s strategy for reducing biosecurity risks in life sciences research and considers mechanisms that would allow researchers to manage the dissemination of the results of research while mitigating the potential for harm to national security

the healthcare professionals who save and extend our lives are helpless without the medicines and technologies that have revolutionised medical care but the industry that invents makes and provides these indispensable tools is transforming under the pressure of ageing populations globalisation and revolutions in biological and information technology how this industry adapts and evolves is vitally important to every one of us this book looks inside the heads and hearts of the people who lead the global pharmaceutical and medical technology industry it describes how they make sense of their markets and the wider life sciences economy it reveals what they have learned about how to lead large complex organisations to compete in dynamic global markets leadership in the life sciences is essential reading for anyone working in or with the pharmaceutical and medical technology industry and its halo of supporting companies written as ten succinct lessons it gives the reader unique insight into what the industry s leaders are thinking covering topics from leadership to organisational culture from change management to digital disruption and from competitive strategy to value creation each chapter distils the accumulated wisdom of those who lead the complex and turbulent life sciences industry

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