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This book develops the mathematical tools essential for students in the life sciences to describe interacting systems and predict their behavior. From predator-prey populations in an ecosystem, to hormone regulation within the body, the natural world abounds in dynamical systems that affect us profoundly. Complex feedback relations and counter-intuitive responses are common in nature; this book develops the quantitative skills needed to explore these interactions. Differential equations are the natural mathematical tool for quantifying change, and are the driving force throughout this book. The use of Euler's method makes nonlinear examples tractable and accessible to a broad spectrum of early-stage undergraduates, thus providing a practical alternative to the procedural approach of a traditional Calculus curriculum. Tools are developed within numerous, relevant examples, with an emphasis on the construction, evaluation, and interpretation of mathematical models throughout. Encountering these concepts in context, students learn not only quantitative

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techniques, but how to bridge between biological and mathematical ways of thinking. Examples range broadly, exploring the dynamics of neurons and the immune system, through to population dynamics and the Google PageRank algorithm. Each scenario relies only on an interest in the natural world; no biological expertise is assumed of student or instructor. Building on a single prerequisite of Precalculus, the book suits a two-quarter sequence for first or second year undergraduates, and meets the mathematical requirements of medical school entry. The later material provides opportunities for more advanced students in both mathematics and life sciences to revisit theoretical knowledge in a rich, real-world framework. In all cases, the focus is clear: how does the math help us understand the science?

Europe needs more innovative companies that grow quickly and end up big. This book examines SME growth, innovation and success, to suggest that fast growing firms could offer a major contribution to the recovery of a European economy. The contributors examine 11 case studies from Italian firms, breaking the book up into three parts: context, actors and strategy. The topics discussed include entrepreneurship and technological clusters, innovative start-ups and growth factors, and family firms as the incubators of new ventures.

Business models are the beating heart of your firm's value proposition. Great business models drive rapid growth; bad business models can doom the most promising ventures. Brilliant Business Models clearly shows you how to create, test, adapt, and innovate

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successful and appropriate business models in any business context. Every company has a business model. When the business model works, the company creates value. Brilliant Business Models combines the latest research, straightforward tools and current examples to bring this surprisingly tricky topic to life. Straightforward cases from the author's research and experience highlight key lessons. This book applies a novel, life-cycle based approach to make business models relevant to your company's development stage. Your company changes over time—so should your business model. Understand how and why business models matter to your organisations success Learn how to evaluate and test business models to identify the most appropriate model Use the business model life-cycle approach to keep your business model relevant and successful.

“Clever, innovative, and simple -- a must read workbook for entrepreneurs!” Charles CHEN Yidan, Co-Founder, Tencent Holdings. “Buy it. Read it. Most importantly, use it!” John Mullins, London Business School, Author of The Customer-Funded Business and The New Business Road Test. “This may well turn out to be your scrapbook for business models. An excellent resource that will get your ideas flowing!” Shane Corstorphine, VP, Regional Growth (Global Regions) and General Manager (Americas), Skyscanner.

The purpose of this four volume series is to make available for college teachers and students samples of important and realistic applications of mathematics which can be covered in undergraduate programs. The goal is to provide illustrations of how modern mathematics is

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actually employed to solve relevant contemporary problems. Although these independent chapters were prepared primarily for teachers in the general mathematical sciences, they should prove valuable to students, teachers, and research scientists in many of the fields of application as well. Prerequisites for each chapter and suggestions for the teacher are provided. Several of these chapters have been tested in a variety of classroom settings, and all have undergone extensive peer review and revision. Illustrations and exercises are included in most chapters. Some units can be covered in one class, whereas others provide sufficient material for a few weeks of class time. Volume 1 contains 23 chapters and deals with differential equations and, in the last four chapters, problems leading to partial differential equations. Applications are taken from medicine, biology, traffic systems and several other fields. The 14 chapters in Volume 2 are devoted mostly to problems arising in political science, but they also address questions appearing in sociology and ecology. Topics covered include voting systems, weighted voting, proportional representation, coalitional values, and committees. The 14 chapters in Volume 3 emphasize discrete mathematical methods such as those which arise in graph theory, combinatorics, and networks.

Open Source Innovation (OSI) has gained considerable momentum within the last years. Academic and management practice interest grows as more and more end-users consider and even participate in Open Source product development like Linux, Android, or Wikipedia.

Open Source Innovation: Phenomenon, Participant

Where To Download Business Modeling For Life Science And Biotech Companies Creating Value And Competitive Advantage With The Milestone Behaviour, Impact brings together rigorous academic research and business importance in scrutinizing OCI from three perspectives: The Phenomenon, Participants' Behavior, and Business Implications. The first section introduces OCI artefacts, including who is participating and why, and provides a systematic overview of the literature. The second section stresses the behaviour of participants, highlighting participation progression, community selection, user entrepreneurship and fair behaviour, and answering key questions like how to manage governance rules, openness and community design aspects. The third explores the impact and implications of OSI for firms and economies by evaluating business models, uncovering opportunities for firms to interact with communities, and presenting value capture mechanisms. Open Source Innovation provides a full picture of the movement to help readers understand and engage with OSI from the micro perspective of individuals, to the community, to the macro perspective of firms and economies. Rapid advances in the life sciences means that there is now a far more detailed understanding of biological systems on the cellular, molecular and genetic levels. Sited at the intersection between the life sciences, the engineering sciences and the des Like much of SMEs research, innovation studies of small enterprises have commenced later and are less numerous. The focus of such studies remains high-technology enterprises, which continue to attract both academic and popular interest, oblivious to the innovative endeavours of people in traditional low-tech

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industries. This book attempts to address this imbalance through a comprehensive analysis of innovation in this largely neglected area. Based on case studies of seven small innovative food companies, this book presents an in-depth analysis of innovation in the Scottish food and drinks industry and unravels a lesser-known approach to effective low-cost product innovation, which is simple and economical, yet elegant and successful. Using careful data collection and rigorous statistical testing, the analysis and findings in this book address a wide spectrum of interests: academics in business schools, policy makers in governments and executives and entrepreneurs in food and other low-technology sectors. This book contains the refereed proceedings of the 12th International Conference on Business Process Modeling, Development and Support (BPMDS 2011) and the 16th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2011), held together with the 23rd International Conference on Advanced Information Systems Engineering (CAiSE 2011) in London, UK, in June 2011. The 22 papers accepted for BPMDS were selected from 61 submissions and cover a wide spectrum of issues related to business processes development, modeling, and support. They are grouped into sections on BPMDS in practice, business process improvement, business process flexibility, declarative process models, variety of modeling paradigms, business process modeling and support systems development, and interoperability and mobility. The 16 papers accepted for EMMSAD were chosen from 31 submissions and focus on exploring, evaluating, and enhancing current information modeling methods and methodologies. They are grouped in sections on workflow and process modeling

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extensions, requirements analysis and information systems development, requirements evolution and information systems evolution, data modeling languages and business rules, conceptual modeling practice, and enterprise architecture.

Global recessions and structural economic shifts are motivating government and business leaders worldwide to increasingly look to "their" universities to stimulate regional development and to contribute to national competitiveness. The challenge is clear and the question is pressing: How will universities respond? This book presents in-depth case narratives of ten universities from Norway, Finland, Sweden, UK, and the U.S. that have overcome significant challenges to develop programs and activities to commercialize scientific research, launch entrepreneurial degree programs, establish industry partnerships, and build entrepreneurial cultures and ecosystems. The universities are quite diverse: large and small; teaching and research focused; internationally recognized and relatively new; located in major cities and in emerging regions. Each case narrative describes challenges overcome, actions taken, and resulting accomplishments. This volume will be of interest to policymakers and university administrators as well as researchers and students interested in how different programs and activities can promote university entrepreneurship while contributing to economic growth in developed and developing economies.

Many science students find themselves in the midst of graduate school or sitting at a lab bench, and realize that they hate lab work! Even worse is realizing that they may love science, but science (at least academic science) is not providing many job opportunities these days. What's a poor researcher to do !? This book gives first-hand descriptions of the evolution of a band of hardy scientists out of the lab and into just about every career you can imagine. Researchers

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from every branch of science found their way into finance, public relations, consulting, business development, journalism, and more - and thrived there! Each author tells their personal story, including descriptions of their career path, a typical day, where to find information on their job, opportunities to career growth, and more. This is a must-read for every science major, and everyone who is looking for a way to break out of their career rut. * An insider's look at the wide range of job opportunities for scientists yearning to leave the lab * First-person stories from researchers who successfully made the leap from science into finance, journalism, law, public policy, and more. * Tips on how to track down and get that job in a new industry * Typical day scenarios for each career track * List of resources (websites, associations, etc.) to help you in your search * Completely revised, this latest edition includes six entirely new chapters

As retail businesses migrate to the digital realm, internal information theft incidents continue to threaten on-line and off-line retail operations. The evolving propagation of internal information theft has surpassed the traditional techniques of crime prevention practices. Many business organizations search for internal information theft prevention guides that fit into their retail business operation, only to be inundated with generic and theoretical models. This book examines applicable methods for retail businesses to effectively prevent internal information theft. Information Theft Prevention offers readers a comprehensive understanding of the current status of the retail sector information theft prevention models in relation to the internationally recognized benchmark of information security. It presents simple and effective management processes for ensuring better information system security, fostering a proactive approach to internal information theft prevention. Furthermore, it builds on well-defined retail business cases to identify applicable solutions

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for businesses today. Integrating the retail business operations and information system security practices, the book identifies ways to coordinate efforts across a business in order to achieve the best results. IT security managers and professionals, financial frauds consultants, cyber security professionals and crime prevention professionals will find this book a valuable resource for identifying and creating tools to prevent internal information theft.

Managing directors and partners from ten of the nation's leading VC firms on spotting the best investments in life sciences.

A strong business model is the bedrock to business success. But all too often we fail to adapt, clinging to outdated models that are no longer delivering the results we need. The brains behind The Business Model Navigator have discovered that just 55 business models are responsible for 90% of the world's most successful businesses. These 55 models – from the Add-On model used by Ryanair to the Subscription model used by Spotify – provide the blueprints you need to revolutionise your business and drive powerful change. As well as providing a practical framework for adapting and innovating your business model, this book also includes each of the 55 models in a quick-read format that covers: What it is Who invented it and who uses it now When and how to apply it “An excellent toolkit for developing your business model.”

Dr Heinz Derenbach, CEO, Bosch Software Innovations

This textbook introduces a science philosophy called "information theoretic" based on Kullback-Leibler information theory. It focuses on a science philosophy based on "multiple working hypotheses" and statistical models to represent them. The text is written for people new to the information-theoretic approaches to statistical inference, whether graduate students, post-docs, or professionals. Readers are however expected to have a background in general statistical

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principles, regression analysis, and some exposure to likelihood methods. This is not an elementary text as it assumes reasonable competence in modeling and parameter estimation.

This book demonstrates how to successfully manage and lead healthcare institutions by employing the logic of business model innovation to gain competitive advantages. Since clerk-like routines in professional organizations tend to overlook patient and service-centered healthcare solutions, it challenges the view that competition and collaboration in the healthcare sector should not only incorporate single-end services, therapies or diagnosis related groups. Moreover, the authors focus on holistic business models, which place greater emphasis on customer needs and put customers and patients first. The holistic business models approach addresses topics such as business operations, competitiveness, strategic business objectives, opportunities and threats, critical success factors and key performance indicators. The contributions cover various aspects of service business innovation such as reconfiguring the hospital business model in healthcare delivery, essential characteristics of service business model innovation in healthcare, guided business modeling and analysis for business professionals, patient-driven service delivery models in healthcare, and continuous and co-creative business model creation.

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All of the contributions introduce business models and strategies, process innovations, and toolkits that can be applied at the managerial level, ensuring the book will be of interest to healthcare professionals, hospital managers and consultants, as well as scholars, whose focus is on improving value-generating and competitive business architectures in the healthcare sector.

This book constitutes the proceedings of the 8th International Symposium on Business Modeling and Software Design, BMSD 2018, held in Vienna, Austria, in July 2018. The 14 full papers and 21 short papers selected for inclusion in this book deal with a large number of research topics: (i) Some topics concern Business Processes (BP), such as BP modeling / notations / visualizations, BP management, BP variability, BP contracting, BP interoperability, BP modeling within augmented reality, inter-enterprise collaborations, and so on; (ii) Other topics concern Software Design, such as software ecosystems, specification of context-aware software systems, service-oriented solutions and micro-service architectures, product variability, software development monitoring, and so on; (iii) Still other topics are crosscutting with regard to business modeling and software design, such as data analytics as well as information security and privacy; (iv) Other topics concern hot technology / innovation areas, such as blockchain technology and internet-of-

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things. Underlying with regard to all those topics is the BMSD'18 theme: Enterprise Engineering and Software Engineering - Processes and Systems for the Future.

COLLEGE ALGEBRA WITH APPLICATIONS FOR BUSINESS AND LIFE SCIENCES, Second Edition, meets the demand for courses that emphasize problem solving, modeling, and real-world applications for business and the life sciences. The authors provide a firm foundation in algebraic concepts, and prompt students to apply their understanding to relevant examples and applications they are likely to encounter in college or in their careers. The program addresses the needs of students at all levels--and in particular those who may have struggled in previous algebra courses--offering an abundance of examples and exercises that reinforce concepts and make learning more dynamic. The early introduction of functions in Chapter 1 ensures compatibility with syllabi and provides a framework for student learning. Instructors can also opt to use graphing technology as a tool for problem solving and for review or retention. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Business Model Generation is a handbook for visionaries, game changers, and challengers striving

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to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model--or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

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With the development of the aging society and the increased importance of emergency risk management in recent years, a large number of medical care challenges - advancing medical treatments, care & support, pharmacological treatments, greater health awareness, emergency treatments, telemedical treatment and care, the introduction of electronic charts, and rising costs - are emerging as social issues throughout the whole world. Hospitals and other medical institutions must develop and maintain superior management to achieve systems that can provide better medical care, welfare and health while enabling "support innovation." Key medical care, welfare and health industries play a crucial role in this, but also of importance are management innovation models that enable "collaborative innovation" by closely linking diverse fields such as ICT, energy, electric equipment, machinery and transport. Looking across different industries, Collaborative Innovation offers new knowledge and insights on the extraordinary value and increasing necessity of collaboration across different organizations in improving the health and lives of people. It breaks new ground with its research theme of building "health support ecosystems," focusing on protecting people through collaborative innovation. This book opens up new, wide-ranging interdisciplinary academic research domains combining the humanities with science

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across various areas including general business administration, economics, information technology, medical informatics and drug information science.

Most books on the biotechnology industry focus on scientific and technological challenges, ignoring the entrepreneurial and managerial complexities faced bio-entrepreneurs. The Business Models for Life Science Firms aims to fill this gap by offering managers in this rapid growth industry the tools needed to design and implement an effective business model customized for the unique needs of research intensive organizations. Onetti and Zucchella begin by unpacking the often-used 'business model' term, examining key elements of business model conceptualization and offering a three tier approach with a clear separation between the business model and strategy: focus, exploring the different activities carried out by the organization; locus, evaluating where organizational activities are centered; and modus, testing the execution of the organization's activities. The business model thus defines the unique way in which a company delivers on its promise to its customers. The theory and applications adopt a global approach, offering business cases from a variety of biotech companies around the world.

A biotech manager's handbook lays out - in a simple, straightforward manner - for the manager or would-be entrepreneur the basic principles of running a

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biotech company. Most managers in biotechnology companies are working in their first company or in their first managerial role. Their expertise and experience in the scientific part of the work can be taken as a given but there is a whole range of other skills to be learned and areas of expertise to come to terms with. Small companies do not have big budgets to hire people or time to become an expert in so many areas. The book starts by outlining the state of the biopharmaceutical industry and goes on to explain the importance of planning (no matter what the size of the company). Succeeding chapters deal with the basics of intellectual property, perspectives from a university technology transfer office and how to raise some initial funding from an investor and entrepreneur. No other 'how to' manual exists for this sector Written by a range of expert professionals in each area, all in one book Is the only 'bench to bedside' book covering the whole spectrum of development

This Portfolio serves as a catalogue of all the training opportunities to be offered by the WIPO Academy in 2021 and outlines the content of each course. It gives information to potential participants on eligibility criteria, application formalities, timelines, selection procedures, travel and other relevant necessary information.

Behind the steady stream of new products, technologies, systems and services in our modern societies there is prolonged and complicated battle around the role of

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users. How should designers get to know the users' interests and needs? Who should speak for the users? How may designers collaborate with users and in what ways may users take innovation into their own hands?

The New Production of Users offers a rare overview of these issues. It traces the history of designer-user relations from the era of mass production to the present days. Its focus lies in elaborating the currently emerging strategies and approaches to user involvement in business and citizen contexts. It analyses the challenges in the practical collaborations between designers and users, and it investigates a number of cases, where groups of users collectively took charge of innovation. In addition to a number of new case studies, the book provides a thorough account of theories of user involvement as well as and offers further developments to these theories. As a part of this, the book relates to the wide spectrum of fields currently associated with user involvement, such as user-centered design, participatory design, user innovation, open source software, cocreation and peer production. Exploring the nexus between users and designers, between efforts to democratize innovation and to mobilize users for commercial purposes, this multi-disciplinary book will be of great interest to academics, policy makers and practitioners in fields such as Innovation Studies, Innovation Policy, Science and Technology Studies, Cultural Studies, Consumption studies, Marketing, e-commerce, Media Studies as well as Design research. 'The processes of internationalization, innovation and venture-creation in high-technology new ventures are

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inextricably intertwined. This is particularly true in the uncertain and troubled waters of the life sciences industry where startups with very uncertain futures are required to face significant challenges in short windows of opportunity. Navigating these waters is not straightforward, either for those immediately involved in it, or for those trying to understand it. This book is a must-read for anyone who is serious about understanding entrepreneurship in the biotechnology industry.' Alberto Onetti, CrESIT (Research Center for Innovation and Life Science Management), Italy In this thought-provoking book, leading experts explore why international entrepreneurship is important to the life sciences industry. From multi-disciplinary and cross-national perspectives, they question why international entrepreneurship scholars might usefully invest interest in research focused on one specific industry context. The book addresses contemporary challenges of relevance to life science firms and draws on leading-edge debates in international entrepreneurship research. Topics include: the nature of the born-global firm; the development of international capabilities and competencies; the role of local and international partnerships and alliances; competitiveness, opportunity recognition and orientation; and the role of specialized complementary assets in internationalization. It concludes by proposing an agenda for future research across the underpinning fields of innovation, entrepreneurship and internationalization. This book will prove a stimulating read for academics, students and researchers with an interest in international business,

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management and entrepreneurship, as well as for practitioners in the health professions or life sciences academics who are, or may become, entrepreneurs. The contemporary economic landscape features the prevalence of the service sector in economic systems, the pervasive servitisation of manufacturing, innovations in traditional business models and new value creation models, thanks to the new possibilities offered by the web, ICT and other enabling technologies. In this evolving context, this book provides qualified contributions on the topic of service science from a managerial perspective. A multidisciplinary perspective is adopted, dealing with both the structural–technological and dynamic–relational aspects of managing complexity. In addressing the contribution that service science can make to business value creation, this book covers relevant issues such as product servitisation, business modelling, value cocreation with customers, performance measures and the role of ICT. It also presents some innovative experiences of management models in service organisations operating in the environmental, energy and health-care sectors. This book aims to enhance the value of the results of research intertwined with the development of a new training curriculum started four years ago at the Scuola Superiore Sant'Anna of Pisa (Italy) with the evolution of the "Master in Management of Innovation" into the new "Master in Management, Innovation and Service Engineering" (MAINS).

The proposed book follows in the same steps as the first book in the series, *The Handbook of Market*

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Research for Life Sciences. While the first book focused on the techniques and methodologies to collect the market data you need to evaluate your market as well as presentation models for your data, the second volume will focus more on the commercialization elements of marketing. As such, this book will be covering a wide range of topics directly tied to marketing management such as marketing and commercialization strategies, consumers' behaviors, marketing metrics, pricing techniques and strategies as well as marketing communications (public relations, advertising, and more). The objective of this book is to focus exclusively on the marketing aspects for life sciences, providing entrepreneurs with a toolkit of tools they can use throughout the marketing process, from market planning to commercialization. The overall objective is for them to gain an understanding on the marketing function, ask the right question, and be able to tackle simple to complex topics.

This book outlines the consequences of digitization for peer-reviewed research articles published in electronic journals. It is argued that digitization will revolutionize scientific communication. However, this study shows that this is not the case where scientific journals are concerned. Authors make little use of the possibilities offered by the digital medium; electronic peer review procedures have not replaced traditional ones, and users have not embraced new forms of interaction offered by some electronic journals.

Using examples from finance and modern warfare to the flocking of birds and the swarming of bacteria, the

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collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior. The topics presented point toward new and challenging frontiers of applied mathematics, making the volume a useful reference text for applied mathematicians, physicists, biologists, and economists involved in the modeling of socio-economic systems.

In the global economy, regional development and innovation are increasingly an imperative to increase the competitive edge of EU economies. While European regions are different in many ways, the innovation capacity of regions, clusters and firms is what makes them capable of building up new and diversified pathways for sustainable growth. For this reason, *Innovation Drivers and Regional Innovation Strategies* looks to analyze different knowledge drivers (e.g. entrepreneurial or policy-orientation; scientific and practice-based knowledge modes; institutional innovation support) that influence the innovative and competitive capacity of regions, clusters and firms in Europe. The aim of this volume is to develop an in-depth understanding of these drivers and their implications for the way in which regional and cluster growth may be upgraded. *Innovation Drivers and Regional Innovation Strategies* examines the construction of new innovation pathways for regions and clusters in different geographical contexts. The main themes

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are cluster evolution, regional innovation systems and business innovation modes and capabilities. The objectives are centred on exploring the logic and mechanisms that can be activated as a means to promote innovation and competitiveness within regions and, within these, across and within firms. Aimed at researchers and academics in the field, this is a thoughtful and innovative new volume that helps define the academic debate.

Knowledge intensive entrepreneurship lies at the core of the structural shift necessary for the growth and development of a knowledge based economy, yet research reveals that the EU has fewer young leading innovators, and Europe's new firms do not adequately contribute to industrial growth. This is especially true in the high R&D intensive, high-tech sectors. This structural malaise, undermining Europe's growth potential, is well diagnosed, but poorly understood. This volume fills this important gap by exploring new firms that have significant knowledge intensity in their activity and develop and exploit innovative opportunities in diverse sectors. Through an evolutionary and systemic approach to entrepreneurship, focusing on knowledge intensive entrepreneurship as both a micro and a macro phenomena and analyzing firms in the context of various socio-economic models, the authors explore firms creation and origins around the world, their organization, strategies and business models as well

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as the role of innovation systems and institutions in their formation and growth. This comprehensive research text is vital reading for academics,

researchers and students of high-tech and knowledge intensive entrepreneurship as well as those with an interest in industrial dynamics, innovation management and public policy.

Recounting the compelling story of a scientific discovery that took more than a century to complete, this trail-blazing monograph focuses on methodological issues and is the first to delve into this subject. This book charts how the biochemical and biophysical mechanisms of photosynthesis were teased out by succeeding generations of scientists, and the author highlights the reconstruction of the heuristics of modelling the mechanism—analyzed at both individual and collective levels. Photosynthesis makes for an instructive example. The first tentative ideas were developed by organic chemists around 1840, while by 1960 an elaborate proposal at a molecular level, for both light and dark reactions, was established. The latter is still assumed to be basically correct today. The author makes a persuasive case for a historically informed philosophy of science, especially regarding methodology, and advocates a history of science whose narrative deploys philosophical approaches and categories. She shows how scientists' attempts to formulate, justify, modify, confirm or criticize their

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models are best interpreted as series of coordinated research actions, dependent on a network of super- and subordinated epistemic goals, and guided by recurrent heuristic strategies. With dedicated chapters on key figures such as Otto Warburg, who borrowed epistemic fundamentals from other disciplines to facilitate his own work on photosynthesis, and on more general topics relating to the development of the field after Warburg, this new work is both a philosophical reflection on the nature of scientific enquiry and a detailed history of the processes behind one of science's most important discoveries.

?? Mathematics for the Life Sciences provides present and future biologists with the mathematical concepts and tools needed to understand and use mathematical models and read advanced mathematical biology books. It presents mathematics in biological contexts, focusing on the central mathematical ideas, and providing detailed explanations. The author assumes no mathematics background beyond algebra and precalculus.

Calculus is presented as a one-chapter primer that is suitable for readers who have not studied the subject before, as well as readers who have taken a calculus course and need a review. This primer is followed by a novel chapter on mathematical modeling that begins with discussions of biological data and the basic principles of modeling. The remainder of the

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chapter introduces the reader to topics in mechanistic modeling (deriving models from biological assumptions) and empirical modeling (using data to parameterize and select models). The modeling chapter contains a thorough treatment of key ideas and techniques that are often neglected in mathematics books. It also provides the reader with a sophisticated viewpoint and the essential background needed to make full use of the remainder of the book, which includes two chapters on probability and its applications to inferential statistics and three chapters on discrete and continuous dynamical systems. The biological content of the book is self-contained and includes many basic biology topics such as the genetic code, Mendelian genetics, population dynamics, predator-prey relationships, epidemiology, and immunology. The large number of problem sets include some drill problems along with a large number of case studies. The latter are divided into step-by-step problems and sorted into the appropriate section, allowing readers to gradually develop complete investigations from understanding the biological assumptions to a complete analysis.

"This volume provides a series of essays on open questions in ecology with the overarching goal being to outline to the most important, most interesting or most fundamental problems in ecology that need to be addressed. The contributions span ecological

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subfields, from behavioral ecology and population ecology to disease ecology and conservation and range in tone from the technical to more personal meditations on the state of the field. Many of the chapters start or end in moments of genuine curiosity, like one which takes up the question of why the world is green or another which asks what might come of a thought experiment in which we "turn-off" evolution entirely"--

Modeling is a key component to sciences from mathematics to life science, including environmental and ecological studies. By looking at the underlying concepts of the software, we can make sure that we build mathematically feasible models and that we get the most out of the data and information that we have. Systems Science and Modeling for Ecological Economics shows how models can be analyzed using simple math and software to generate meaningful qualitative descriptions of system dynamics. This book shows that even without a full analytical, mathematically rigorous analysis of the equations, there may be ways to derive some qualitative understanding of the general behavior of a system. By relating some of the modeling approaches and systems theory to real-world examples the book illustrates how these approaches can help understand concepts such as sustainability, peak oil, adaptive management, optimal harvest and other practical applications. Relates modeling

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approaches and systems theory to real-world examples Teaches students to build mathematically feasible models and get the most out of the data and information available Wide range of applications in hydrology, population dynamics, market cycles, sustainability theory, management, and more

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