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### KEY=MACLAURIN - ENGLISH FAULKNER

### SCHOOL AND SOCIETY

### SCHOOL & SOCIETY

### SCHOOL & SOCIETY

### ENGINEERING NEWS

### COMPLEX VARIABLES AND APPLICATIONS

### CALCULUS II

*Spark Publishing Group SparkChartsTM*--created by Harvard students for students everywhere--serve as study companions and reference tools that cover a wide range of college and graduate school subjects, including Business, Computer Programming, Medicine, Law, Foreign Language, Humanities, and Science. Titles like *How to Study*, *Microsoft Word for Windows*, *Microsoft Powerpoint for Windows*, and *HTML* give you what it takes to find success in school and beyond. Outlines and summaries cover key points, while diagrams and tables make difficult concepts easier to digest. This six-page chart covers: The area under a curve The definite integral Antiderivatives and the indefinite integral The fundamental theorem of calculus Techniques of integration Table of trigonometric substitutions Improper integrals Geometry of curves Parametric curves Polar coordinates Differential equations Sequences and series Applications to physics and statistics

### MATHEMATICAL ASPECTS OF QUANTIZATION

### CENTER FOR MATHEMATICS AT NOTRE DAME, SUMMER SCHOOL AND CONFERENCE, MAY 31-JUNE 10, 2011, NOTRE DAME UNIVERSITY, NOTRE DAME, INDIANA

*American Mathematical Soc.* This book is a collection of expository articles from the Center of Mathematics at Notre Dame's 2011 program on quantization. Included are lecture notes from a summer school on quantization on topics such as the Cherednik algebra, geometric quantization, detailed proofs of Willwacher's results on the Kontsevich graph complex, and group-valued moment maps. This book also includes expository articles on quantization and automorphic forms, renormalization, Berezin-Toeplitz quantization in the complex setting, and the commutation of quantization with reduction, as well as an original article on derived Poisson brackets. The primary goal of this volume is to make topics in quantization more accessible to graduate students and researchers.

### MEDIA AND THE AMERICAN MIND

### FROM MORSE TO MCLUHAN

*Univ of North Carolina Press* In a fascinating and comprehensive intellectual history of modern communication in America, Daniel Czitrom examines the continuing contradictions between the progressive possibilities that new communications technologies offer and their use as instruments of domination and exploitation.

### COMPREHENSIVE DISSERTATION INDEX, 1861-1972: AUTHOR INDEX

### MARINE BIOLOGY; 4

*Hassell Street Press* This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

### VOLATILITY AND CORRELATION

### THE PERFECT HEDGER AND THE FOX

*John Wiley & Sons* In *Volatility and Correlation 2nd edition: The Perfect Hedger and the Fox*, Rebonato looks at derivatives pricing from the angle of volatility and correlation. With both practical and theoretical applications, this is a thorough update of the highly successful *Volatility & Correlation* - with over 80% new or fully reworked material and is a must have both for practitioners and for students. The new and updated material includes a critical examination of the 'perfect-replication' approach to derivatives pricing, with special attention given to exotic options; a thorough analysis of the role of quadratic variation in derivatives pricing and hedging; a discussion of the informational efficiency of markets in commonly-used calibration and hedging practices. Treatment of new models including Variance Gamma, displaced diffusion, stochastic volatility for interest-rate smiles and equity/FX options. The book is split into four parts. Part I deals with a Black world without smiles, sets out the author's 'philosophical' approach and covers deterministic volatility. Part II looks at smiles in equity and FX worlds. It begins with a review of relevant empirical information about smiles, and provides coverage of local-stochastic-volatility, general-stochastic-volatility, jump-diffusion and Variance-Gamma processes. Part II concludes with an important chapter that discusses if and to what extent one can dispense with an explicit specification of a model, and can directly prescribe the dynamics of the smile surface. Part III focusses on interest rates when the volatility is deterministic. Part IV extends this setting in order to account for smiles in a financially motivated and computationally tractable manner. In this final part the author deals with CEV processes, with diffusive stochastic volatility and with Markov-chain processes. Praise for the First Edition: "In this book, Dr Rebonato brings his penetrating eye to bear on option pricing and hedging.... The book is a must-read for those who already know the basics of options and are looking for an edge in applying the more sophisticated approaches that have recently been developed." —Professor Ian Cooper, London Business School "Volatility and correlation are at the very core of all option pricing and hedging. In this book, Riccardo Rebonato presents the subject in his characteristically elegant and simple fashion...A rare combination of intellectual insight and practical common sense." —Anthony Neuberger, London Business School

### FASCINATING MATHEMATICAL PEOPLE

### INTERVIEWS AND MEMOIRS

*Princeton University Press* Top mathematicians talk about their work and lives *Fascinating Mathematical People* is a collection of informal interviews and memoirs of sixteen prominent members of the mathematical community of the twentieth century, many still active. The candid portraits collected here demonstrate that while these men and women vary widely in terms of their backgrounds, life stories, and worldviews, they all share a deep and abiding sense of wonder about mathematics. Featured here—in their own words—are major research mathematicians whose cutting-edge discoveries have advanced the frontiers of the field, such as Lars Ahlfors, Mary Cartwright, Dusa McDuff, and Atle Selberg. Others are leading mathematicians who have also been highly influential as teachers and mentors, like Tom Apostol and Jean Taylor. Fern Hunt describes what it was like to be among the first black women to earn a PhD in mathematics. Harold Bacon made trips to Alcatraz to help a prisoner learn calculus. Thomas Banchoff, who first became interested in the fourth dimension while reading a Captain Marvel comic, relates his fascinating friendship with Salvador Dalí and their shared passion for art, mathematics, and the profound connection between the two. Other mathematical people found here are Leon Bankoff, who was also a Beverly Hills dentist; Arthur Benjamin, a part-time professional magician; and Joseph Gallian, a legendary mentor of future mathematicians, but also a world-renowned expert on the Beatles. This beautifully illustrated collection includes many photographs never before published, concise introductions by the editors to each person, and a foreword by Philip J. Davis.

### THE LAKESIDE ANNUAL DIRECTORY OF THE CITY OF CHICAGO

### CALCULUS

### CONCEPTS AND CONTEXTS

*Brooks/Cole Publishing Company* Stewart's *CALCULUS: CONCEPTS AND CONTEXTS*, 3rd Edition focuses on major concepts and supports them with precise definitions, patient explanations, and carefully graded problems. Margin notes clarify and expand on topics presented in the body of the text. The *Tools for Enriching Calculus* CD-ROM contains visualizations, interactive modules, and homework hints that enrich your learning experience. *iLrn Homework* helps you identify where you need additional help, and *Personal Tutor with SMARTHINKING* gives you live, one-on-one online help from an experienced calculus tutor. In addition, the *Interactive Video Skillbuilder* CD-ROM takes you step-by-step through examples from the book. The new Enhanced Review Edition includes new practice tests with solutions, to give you additional help with mastering the concepts needed to succeed in the course.

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## PRINCIPLES OF MARKETING

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An introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts' helps students test and consolidate understanding as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical thinking exercises for applying skills.

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## SINGLE VARIABLE CALCULUS

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*Cengage Learning* James Stewart's Calculus series is the top-seller in the world because of its problem-solving focus, mathematical precision and accuracy, and outstanding examples and problem sets. Selected and mentored by Stewart, Daniel Clegg and Saleem Watson continue his legacy of providing students with the strongest foundation for a STEM future. Their careful refinements retain Stewart's clarity of exposition and make the 9th edition even more usable as a teaching tool for instructors and as a learning tool for students. Showing that Calculus is both practical and beautiful, the Stewart approach enhances understanding and builds confidence for millions of students worldwide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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## HUMAN ACCOMPLISHMENT

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### THE PURSUIT OF EXCELLENCE IN THE ARTS AND SCIENCES, 800 B.C. TO 1950

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*Harper Collins* A sweeping cultural survey reminiscent of Barzun's *From Dawn to Decadence*. "At irregular times and in scattered settings, human beings have achieved great things. Human Accomplishment is about those great things, falling in the domains known as the arts and sciences, and the people who did them." So begins Charles Murray's unique account of human excellence, from the age of Homer to our own time. Employing techniques that historians have developed over the last century but that have rarely been applied to books written for the general public, Murray compiles inventories of the people who have been essential to the stories of literature, music, art, philosophy, and the sciences—a total of 4,002 men and women from around the world, ranked according to their eminence. The heart of *Human Accomplishment* is a series of enthralling descriptive chapters: on the giants in the arts and what sets them apart from the merely great; on the differences between great achievement in the arts and in the sciences; on the meta-inventions, 14 crucial leaps in human capacity to create great art and science; and on the patterns and trajectories of accomplishment across time and geography. Straightforwardly and undogmatically, Charles Murray takes on some controversial questions. Why has accomplishment been so concentrated in Europe? Among men? Since 1400? He presents evidence that the rate of great accomplishment has been declining in the last century, asks what it means, and offers a rich framework for thinking about the conditions under which the human spirit has expressed itself most gloriously. Eye-opening and humbling, *Human Accomplishment* is a fascinating work that describes what humans at their best can achieve, provides tools for exploring its wellsprings, and celebrates the continuing common quest of humans everywhere to discover truths, create beauty, and apprehend the good.

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## CUSTOMER ENGAGEMENT

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### CONTEMPORARY ISSUES AND CHALLENGES

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*Routledge* How customers and consumer behavior have been changing due to technology and other forces is of prime interest. This book addresses the central questions regarding new emerging consumer behavior: how does social media affect this behavior; how and at what points do emotions affect consumer decisions; and what triggers this is: How should engagement be conceptualized, defined and measured? How do social media and other marketing activities create engagement? The book draws on the rich, extensive knowledge of the authors who are pioneers in the field. The book's editors have identified the weakness in the current knowledge and aim to address this gap by touching on significant conceptual and empirical contributions to this emerging literature stream, providing readers with a comprehensive contemporary perspective of customer engagement. The book also endeavors to develop a richer narrative around the notion of social media and customer engagement, and the non-monetary notion of social media within new media-based social networks.

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## MODELLING TRANSPORT

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*John Wiley & Sons* Already the market leader in the field, *Modelling Transport* has become still more indispensable following a thorough and detailed update. Enhancements include two entirely new chapters on modelling for private sector projects and on activity-based modelling; a new section on dynamic assignment and micro-simulation; and sizeable updates to sections on disaggregate modelling and stated preference design and analysis. It also tackles topical issues such as valuation of externalities and the role of GPS in travel time surveys. Providing unrivalled depth and breadth of coverage, each topic is approached as a modelling exercise with discussion of the roles of theory, data, model specification, estimation, validation and application. The authors present the state of the art and its practical application in a pedagogic manner, easily understandable to both students and practitioners. Follows on from the highly successful third edition universally acknowledged as the leading text on transport modelling techniques and applications Includes two new chapters on modelling for private sector projects and activity based modeling, and numerous updates to existing chapters Incorporates treatment of recent issues and concerns like risk analysis and the dynamic interaction between land use and transport Provides comprehensive and rigorous information and guidance, enabling readers to make practical use of every available technique Relates the topics to new external factors and technologies such as global warming, valuation of externalities and global positioning systems (GPS).

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## BIOGRAPHICAL DICTIONARY OF THE HISTORY OF TECHNOLOGY

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*Routledge* This Biographical Dictionary seeks to put the world of technology in the context of those who have made the most important contribution to it. For the first time information has been gathered on the people who have made the most significant advances in technology. From ancient times to the present day, the major inventors, discoverers and entrepreneurs from around the world are profiled, and their contribution to society explained and assessed. Structure The Dictionary presents descriptive and analytical biographies of its subjects in alphabetical order for ease of reference. Each entry provides detailed information on the individual's life, work and relevance to their particular field. \* in the first part of the entry, the information will include the dates and places of the subject's birth and death, together with their nationality and their field of activity \* in the main body of the entry there follows an account of their principal achievements and their significance in the history of technology, along with full details of appointments and honours \* finally an annotated bibliography will direct the reader to the subject's principal writings and publications and to the most important secondary works which the reader can consult for further information. Special Features: \* The first work in existence to examine technologists in detail \* Contains over 1,500 entries giving detailed information \* Extensive cross-references enable the reader to compare subjects and build up a picture of technological advance ^ \* Figures drawn from fields such as Aeronautics, Telecommunications, Architecture, Photography and Textiles

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## CHORAL CONDUCTING TECHNIQUES

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*Choral Conducting Techniques* The posture of a conductor is just as important as the posture of a singer. It should not be ramrod stiff, nor should it be so loose that the gestures have no energy. The same element of dynamic tension that is so important to the buoyancy of singing is applicable to conductors. The conductor should adopt a position of alertness that is inspired by energy but is not muscle-bound. Chapter Outline: Use of a Baton Holding the Baton The Preparatory Beat Starting on the First Beat Starting on the Last Beat Starting on Other Beats Starting on Fractions of Beats The Release The Conducting Beat Patterns Conducting Asymmetrical Beat Patterns Practicing the Patterns Conducting Fast Tempos Conducting Divided Beat Patterns Unmetered or Free Rhythms Mixed Meters and Other Conducting Problems The Fermata Use Of The Left Hand In Conducting Tempo Determination Change of Tempo Establishing the Mood Expressive Conducting Performance Conducting The Open Courses Library introduces you to the best Open Source Courses.

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## MAKE LIFE VISIBLE

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*Springer Nature* This open access book describes marked advances in imaging technology that have enabled the visualization of phenomena in ways formerly believed to be completely impossible. These technologies have made major contributions to the elucidation of the pathology of diseases as well as to their diagnosis and therapy. The volume presents various studies from molecular imaging to clinical imaging. It also focuses on innovative, creative, advanced research that gives full play to imaging technology in the broad sense, while exploring cross-disciplinary areas in which individual research fields interact and pursuing the development of new techniques where they fuse together. The book is separated into three parts, the first of which addresses the topic of visualizing and controlling molecules for life. The second part is devoted to imaging of disease mechanisms, while the final part comprises studies on the application of imaging technologies to diagnosis and therapy. The book contains the proceedings of the 12th Uehara International Symposium 2017, "Make Life Visible" sponsored by the Uehara Memorial Foundation and held from June 12 to 14, 2017. It is written by leading scientists in the field and is an open access publication under a CC BY 4.0 license.

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## HANDBOOK OF MICROMETEOROLOGY

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### A GUIDE FOR SURFACE FLUX MEASUREMENT AND ANALYSIS

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*Springer Science & Business Media* The Handbook of Micrometeorology is the most up-to-date reference for micrometeorological issues and methods related to the eddy covariance technique for estimating mass and energy exchange between the terrestrial biosphere and the atmosphere. It provides useful insight for interpreting estimates of mass and energy exchange and understanding the role of the terrestrial biosphere in global environmental change.

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## THE PHILOSOPHY OF SCIENCE

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*Psychology Press* The first in-depth reference to the field that combines scientific knowledge with philosophical inquiry, this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science. The areas covered include biology, chemistry, epistemology and metaphysics, physics, psychology and mind, the social sciences, and key figures in the combined studies of science and philosophy. (Midwest).

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## ON EXCELLENCE IN TEACHING

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*Solution Tree Press* Learn from the world's best education researchers, theorists, and staff developers as they present recommendations on effective instruction. The book provides a comprehensive view of instruction from a theoretical, systemic, and classroom perspective. The authors' diverse expertise delivers a wide range of ideas and strategies.

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## THE DENTISTS REGISTER

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## TRENDS IN SPATIAL ANALYSIS AND MODELLING

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## DECISION-SUPPORT AND PLANNING STRATEGIES

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*Springer* This book is a collection of original research papers that focus on recent developments in Spatial Analysis and Modelling with direct relevance to settlements and infrastructure. Topics include new types of data (such as simulation data), applications of methods to support decision-making, and investigations of human-environment data in order to recognize significance for structures, functions and processes of attributes. Research incorporated ranges from theoretical through methodological to applied work. It is subdivided into four main parts: the first focusing on the research of settlements and infrastructure, the second studies aspects of Geographic Data Mining, the third presents contributions in the field of Spatial Modelling, System Dynamics and Geosimulation, and the fourth part is dedicated to Multi-Scale Representation and Analysis. The book is valuable to those with a scholarly interest in spatial sciences, urban and spatial planning, as well as anyone interested in spatial analysis and the planning of human settlements and infrastructure. Most of the selected papers were originally presented at the "International Land Use Symposium (ILUS 2015): Trends in Spatial Analysis and Modelling of Settlements and Infrastructure" November 11-13 2015, in Dresden, Germany.

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## METAPHYSICS OF SCIENCE

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## A SYSTEMATIC AND HISTORICAL INTRODUCTION

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*Routledge* Metaphysics and science have a long but troubled relationship. In the twentieth century the Logical Positivists argued metaphysics was irrelevant and that philosophy should be guided by science. However, metaphysics and science attempt to answer many of the same, fundamental questions: What are laws of nature? What is causation? What are natural kinds? In this book, Markus Schrenk examines and explains the central questions and problems in the metaphysics of science. He reviews the development of the field from the early modern period through to the latest research, systematically assessing key topics including: dispositions counterfactual conditionals laws of nature causation properties natural kinds essence necessity. With the addition of chapter summaries and annotated further reading, *Metaphysics of Science* is a much-needed, clear and informative survey of this exciting area of philosophical research. It is essential reading for students and scholars of philosophy of science and metaphysics.

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## EDUCATIONAL DIRECTORY

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## FUNDAMENTAL ASPECTS OF DISLOCATION THEORY

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## CONFERENCE PROCEEDINGS, NATIONAL BUREAU OF STANDARDS, APRIL 21-25, 1969

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## HANDBOOK OF ORGANIZATIONS (RLE: ORGANIZATIONS)

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*Routledge* This book charts the state of organizational research and theory during the 1960s. A compendium of results, references, concepts ideas and theories, this Handbook will be of interest to both academics in organizational theory and managers facing operating problems of organizations.

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## TECHNOLOGICAL CONCEPTS AND MATHEMATICAL MODELS IN THE EVOLUTION OF MODERN ENGINEERING SYSTEMS

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## CONTROLLING • MANAGING • ORGANIZING

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*Birkhäuser* This collection of historical research studies covers the evolution of technology as knowledge, the emergence of an autonomous engineering science in the Industrial Age, the idea of scientific management of production and operation systems, and the interaction between mathematical models and technological concepts. The book is published with the support of the UNESCO Venice Office - Regional Office for Science & Technology in Europe as an activity of the Project: The evolution of events, concepts and models in engineering systems.

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## RACIALIZED IDENTITIES

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## RACE AND ACHIEVEMENT AMONG AFRICAN AMERICAN YOUTH

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*Stanford University Press* As students navigate learning and begin to establish a sense of self, local surroundings can have a major influence on the range of choices they make about who they are and who they want to be. This book investigates how various constructions of identity can influence educational achievement for African American students, both within and outside school. Unique in its attention to the challenges that social and educational stratification pose, as well as to the opportunities that extracurricular activities can offer for African American students' access to learning, this book brings a deeper understanding of the local and fluid aspects of academic, racial, and ethnic identities. Exploring agency, personal sense-making, and social processes, this book contributes a strong new voice to the growing conversation on the relationship between identity and achievement for African American youth.

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## THE ECONOMIC IMPACT OF KNOWLEDGE

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*Routledge* First Published in 1998. This text explores how economists and public policy makers are re-thinking the way in which governments monitor, measure and influence an economy in an unbounded global environment where output is largely intangible and organisations are becoming increasingly non-national in scope. Through a collection of seminal articles written by prominent business people, academics, and public policy makers, this three anthology examines the key issues surrounding the economic impact of knowledge-based growth.

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## A PATRON FOR PURE SCIENCE

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## THE NATIONAL SCIENCE FOUNDATION'S FORMATIVE YEARS, 1945-57

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## ADVANCES IN METHODS AND APPLICATIONS OF QUANTUM SYSTEMS IN CHEMISTRY, PHYSICS, AND BIOLOGY

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*Springer Nature* This book reviews the most significant advances in concepts, methods, and applications of quantum systems in a broad variety of problems in modern chemistry, physics, and biology. In particular, it discusses atomic, molecular, and solid structure, dynamics and spectroscopy, relativistic and correlation effects in quantum chemistry, topics of computational chemistry, physics and biology, as well as applications of theoretical chemistry and physics in advanced molecular and nano-materials and biochemical systems. The book contains peer-reviewed contributions written by leading experts in the fields and based on the presentations given at the Twenty-Fourth International Workshop on Quantum Systems in Chemistry, Physics, and Biology held in Odessa, Ukraine, in August 2019. This book is aimed at advanced graduate students, academics, and researchers, both in university and corporation laboratories, interested in state-of-the-art and novel trends in quantum chemistry, physics, biology, and their applications.

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## MODERN CRYSTALLOGRAPHY 2

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## STRUCTURE OF CRYSTALS

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*Springer Science & Business Media* The four-volume treatment *Modern Crystallography* presents an encyclopaedic exposition of problems concerning the structure of crystals, their growth and their properties. *Structure of Crystals* deals with crystal structures in inorganic and organic compounds, polymers, liquid crystals, biological crystals and macromolecules.

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## ADVANCES IN AUTOMATIC DIFFERENTIATION

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*Springer Science & Business Media* The Fifth International Conference on Automatic Differentiation held from August 11 to 15, 2008 in Bonn, Germany, is the most recent one in a series that began in Breckenridge, USA, in 1991 and continued in Santa Fe, USA, in 1996, Nice, France, in 2000 and Chicago, USA, in 2004. The 31 papers included in these proceedings reflect the state of the art in automatic differentiation (AD) with respect to theory, applications, and tool development. Overall, 53 authors from institutions in 9 countries contributed, demonstrating the worldwide acceptance of AD technology in computational science. Recently it was shown that the problem underlying AD is indeed NP-hard, formally proving the inherently challenging nature of this technology. So, most likely, no deterministic "silver bullet" polynomial algorithm can be devised that delivers optimum performance for general codes. In this context, the exploitation of domain-specific structural information is a driving issue in advancing practical AD tool and algorithm development. This trend is prominently reflected in many of the publications in this volume, not only in a better understanding of the interplay of AD and certain mathematical paradigms, but in particular in the use of hierarchical AD approaches that judiciously employ general AD techniques in application-specific algorithmic harnesses. In this context, the understanding of structures such as sparsity of derivatives, or generalizations of this concept like scarcity, plays a critical role, in particular for higher derivative computations.

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## PI: A SOURCE BOOK

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*Springer Science & Business Media* Our intention in this collection is to provide, largely through original writings, an extended account of pi from the dawn of mathematical time to the present. The story of pi reflects the most seminal, the most serious, and sometimes the most whimsical aspects of mathematics. A surprising amount of the most important mathematics and a significant number of the most important mathematicians have contributed to its unfolding directly or otherwise. Pi is one of the few mathematical concepts whose mention evokes a response of recognition and interest in those not concerned professionally with the subject. It has been a part of human culture and the educated imagination for more than twenty-five hundred years. The computation of pi is virtually the only topic from the most ancient stratum of mathematics that is still of serious interest to modern mathematical research. To pursue this topic as it developed throughout the millennia is to follow a thread through the history of mathematics that winds through geometry, analysis and special functions, numerical analysis, algebra, and number theory. It offers a subject that provides mathematicians with examples of many current mathematical techniques as well as a palpable sense of their historical development. Why a Source Book? Few books serve wider potential audiences than does a source book. To our knowledge, there is at present no easy access to the bulk of the material we have collected.

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**THE MAKING OF MODERN INTELLECTUAL PROPERTY LAW**

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*Cambridge University Press* This book explores the shape that intellectual property law took over the course of the nineteenth century.