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KEY=ACTION - ROMAN OCONNOR

INTRODUCTION TO COMMUTATIVE ALGEBRA

CRC Press First Published in 2018. Routledge is an imprint of Taylor & Francis, an Informa company.

MATHEMATICS IN ACTION 1

Addison Wesley Publishing Company

LEARN PYTHON 3 THE HARD WAY

A VERY SIMPLE INTRODUCTION TO THE TERRIFYINGLY BEAUTIFUL WORLD OF COMPUTERS AND CODE

Addison-Wesley Professional *You Will Learn Python 3! Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In Learn Python 3 the Hard Way, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Automated testing Basic game development Basic web development It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3*

PEARSON MATHEMATICS

HILBERT'S FIFTH PROBLEM AND RELATED TOPICS

American Mathematical Soc. *In the fifth of his famous list of 23 problems, Hilbert asked if every topological group which was locally Euclidean was in fact a Lie group. Through the work of Gleason, Montgomery-Zippin, Yamabe, and others, this question was solved affirmatively; more generally, a satisfactory description of the (mesoscopic) structure of locally compact groups was established. Subsequently, this structure theory was used to prove Gromov's theorem on groups of polynomial growth, and more recently in the work of Hrushovski, Breuillard, Green, and the author on the structure of approximate groups. In this graduate text, all of this material is presented in a unified manner, starting with the analytic structural theory of real Lie groups and Lie algebras (emphasising the role of one-parameter groups and the Baker-Campbell-Hausdorff formula), then presenting a proof of the Gleason-Yamabe structure theorem for locally compact groups (emphasising the role of Gleason metrics), from which the solution to Hilbert's fifth problem follows as a corollary. After reviewing some model-theoretic preliminaries (most notably the theory of ultraproducts), the combinatorial applications of the Gleason-Yamabe theorem to approximate groups and groups of polynomial growth are then given. A large number of relevant exercises and other supplementary material are also provided.*

GOOD STRATEGY, BAD STRATEGY

THE DIFFERENCE AND WHY IT MATTERS

Crown Books *Argues that a manager's central responsibility is to create and implement strategies, challenges popular motivational practices, and shares anecdotes discussing how to enable action-oriented plans for real-world results.*

A FRAMEWORK FOR K-12 SCIENCE EDUCATION

PRACTICES, CROSSCUTTING CONCEPTS, AND CORE IDEAS

National Academies Press *Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.*

AGRICULTURAL INNOVATION SYSTEMS

AN INVESTMENT SOURCEBOOK

World Bank Publications *Managing the ability of agriculture to meet rising global demand and to respond to the changes and opportunities will require good policy, sustained investments, and innovation - not business as usual. Investments in public Research and Development, extension, education, and their links with one another have elicited high returns and pro-poor growth, but these investments alone will not elicit innovation at the pace or on the scale required by the intensifying and proliferating challenges confronting agriculture. Experience indicates that aside from a strong capacity in*

Research and Development, the ability to innovate is often related to collective action, coordination, the exchange of knowledge among diverse actors, the incentives and resources available to form partnerships and develop businesses, and conditions that make it possible for farmers or entrepreneurs to use the innovations. While consensus is developing about what is meant by 'innovation' and 'innovation system', no detailed blueprint exists for making agricultural innovation happen at a given time, in a given place, for a given result. The AIS approach that looks at these multiple conditions and relationships that promote innovation in agriculture, has however moved from a concept to a sub-discipline with principles of analysis and action. AIS investments must be specific to the context, responding to the stage of development in a particular country and agricultural sector, especially the AIS. This sourcebook contributes to identifying, designing, and implementing the investments, approaches, and complementary interventions that appear most likely to strengthen AIS and to promote agricultural innovation and equitable growth. It emphasizes the lessons learned, benefits and impacts, implementation issues, and prospects for replicating or expanding successful practices. The information in this sourcebook derives from approaches that have been tested at different scales in different contexts. It reflects the experiences and evolving understanding of numerous individuals and organizations concerned with agricultural innovation, including the World Bank. This information is targeted to the key operational staff in international and regional development agencies and national governments who design and implement lending projects and to the practitioners who design thematic programs and technical assistance packages. The sourcebook can also be an important resource for the research community and nongovernmental organizations (NGOs).

EDUCATION FOR MATHEMATICS IN THE WORKPLACE

[Springer Science & Business Media](#) This timely volume raises issues concerning the nature of school mathematics and mathematics at work, and the challenges of teaching valuable mathematics in school and providing appropriate training for a variety of careers. It offers lively commentaries on important 'hot' topics: transferring knowledge and skill across contexts; 'authentic mathematics'; comparability of different types of assessment; and analyses of research methods.

MEDICAL DOSAGE CALCULATIONS

A DIMENSIONAL ANALYSIS APPROACH

[Pearson Higher Ed](#) For courses in medical dosage calculation in departments of nursing, pharmacy, pre-med, pre-dental, and other health disciplines; and for courses covering dosage calculation in other programs, such as pharmacology, pediatrics and critical care. The complete and user-friendly guide to safe drug dosage calculation Fully revised for current practices and medication, Medical Dosage Calculations remains the field's most complete, user-friendly and accessible drug calculation text and workbook. Using the dimensional analysis format it pioneered, students begin with simple arithmetic, progressing to the most complex drug calculations. As they develop mathematical skills for accurate dosage calculations, they also gain a thorough professional understanding of safe drug administration. Compared with competitors, our text contains deeper, more realistic problems, incorporating actual dosages and requiring real critical thinking.

INTEGRATED CHINESE, LEVEL 1

THE QUEST FOR ARTIFICIAL INTELLIGENCE

[Cambridge University Press](#) Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

ISCED 2011 OPERATIONAL MANUAL GUIDELINES FOR CLASSIFYING NATIONAL EDUCATION PROGRAMMES AND RELATED QUALIFICATIONS

GUIDELINES FOR CLASSIFYING NATIONAL EDUCATION PROGRAMMES AND RELATED QUALIFICATIONS

[OECD Publishing](#) This operational manual is designed to assist in the classification and mapping of national education systems according to ISCED 2011.

THE YEAR WE DISAPPEARED

A FATHER - DAUGHTER MEMOIR

[Bloomsbury Publishing USA](#) When Cylin Busby was nine years old, she was obsessed with Izod clothing, the Muppets, and a box turtle she kept in a shoebox. Then everything changed overnight. Her police officer father, John, was driving to his shift when someone leveled a shotgun at his window. The blasts that followed left John's jaw on the passenger seat of his car-literally. While clinging to life, he managed to write down the name of the only person he thought could have pulled the trigger. The suspect? A local ex-con with rumored mob connections. The motive? Officer Busby was scheduled to testify against the suspect's family in an upcoming trial. Overnight, the Busbys went from being the "family next door" to one under 24-hour armed guard, with police escorts to school, and no contact with friends. Worse, the shooter was still on the loose, and it seemed only a matter of time before he'd come after John-or someone else in the family-again. With few choices left to them, the Busby family went into hiding, severing all ties to the only life they had known.

ACRONYMS ABBREVIATIONS & TERMS - A CAPABILITY ASSURANCE JOB AID

[FEMA](#) The FAAT List is not designed to be an authoritative source, merely a handy reference. Inclusion recognizes terminology existence, not legitimacy. Entries known to be obsolete are included because they may still appear in extant publications and correspondence.

MICROWAVE DEVICES, CIRCUITS AND SUBSYSTEMS FOR COMMUNICATIONS ENGINEERING

[John Wiley & Sons](#) Microwave Devices, Circuits and Subsystems for Communications Engineering provides a detailed treatment of the common microwave elements found in modern microwave communications systems. The treatment is thorough without being unnecessarily mathematical. The emphasis is on acquiring a conceptual understanding of the techniques and technologies discussed and the practical design criteria required to apply these in real engineering situations. Key topics addressed include: Microwave diode and transistor equivalent circuits Microwave transmission line technologies and microstrip design Network methods and s-parameter measurements Smith chart and related design techniques Broadband and low-noise amplifier design Mixer theory and design Microwave filter design Oscillators, synthesizers and phase locked loops Each chapter is written by specialists in their field and the whole is edited by experience authors whose expertise spans the fields of communications systems engineering and microwave circuit design. Microwave Devices, Circuits and Subsystems for Communications Engineering is suitable for senior electrical, electronic or telecommunications engineering undergraduate students, first year postgraduate students and experienced engineers seeking a conversion or refresher text. Includes a companion website featuring: Solutions to selected problems Electronic versions of the figures Sample chapter

SOIL AND SOUL

PEOPLE VERSUS CORPORATE POWER

[Aurum Press Limited](#) DIV It is easy to feel helpless in the face of the torrent of information about environmental catastrophes taking place all over the world. In this powerful and provocative book, Scottish writer and campaigner Alastair McIntosh shows how it is still possible for individuals and communities to take on the might of corporate power and emerge victorious. As a founder of the Isle of Eigg Trust, McIntosh helped the beleaguered residents of Eigg to become the first Scottish community ever to clear their laird from his own estate. And plans to turn a majestic Hebridean mountain into a superquarry were overturned after McIntosh persuaded a Native American warrior chief to visit the Isle of Harris and testify at the government inquiry. This extraordinary book weaves together theology, mythology, economics, ecology, history, poetics and politics as the author journeys towards a radical new philosophy of community, spirit and place. His daring and imaginative responses to the destruction of the natural world make Soil and Soul an uplifting, inspirational and often richly humorous read. /div

GLOBAL STANDARD SETTING IN INTERNET GOVERNANCE

[Oxford University Press](#) The book addresses representation of the public interest in Internet standard developing organisations (SDOs). Much of the existing literature on Internet governance focuses on international organisations such as the United Nations (UN), the Internet Governance Forum (IGF) and the Internet Corporation for Assigned Names and Numbers (ICANN). The literature covering standard developing organisations has to date focused on organisational aspects. This book breaks new ground with investigation of standard development within SDO fora. Case studies centre on standards relating to privacy and security, mobile communications, Intellectual Property Rights (IPR) and copyright. The book lifts the lid on internet standard setting with detailed insight into a world which, although highly technical, very much affects the way in which citizens live and work on a daily basis. In doing this it adds significantly to the trajectory of research on Internet standards and SDOs that explore the relationship between politics and protocols. The analysis contributes to academic debates on democracy and the internet, global self-regulation and civil society, and international decision-making processes in unstructured environments. The book advances work on the Multiple Streams Framework (MS) by applying it to decision-making in non-state environments, namely SDOs which have long been dominated by private actors. The book is aimed at academic audiences in political science, computer science communications and science and technology studies as well as representatives from civil society, the civil service, government, engineers and experts working within SDO fora. It will also be accessible to students at the postgraduate and undergraduate levels.

THE PYTHON 3 STANDARD LIBRARY BY EXAMPLE

PYTH 3 STAN LIBR EXAM _2

[Addison-Wesley Professional](#) This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Master the Powerful Python 3 Standard Library through Real Code Examples "The genius of Doug's approach is that with 15 minutes per week, any motivated programmer can learn the Python Standard Library. Doug's guided tour will help you flip the switch to fully power-up Python's batteries." --Raymond Hettinger, Distinguished Python Core Developer The Python 3 Standard Library contains hundreds of modules for interacting with the operating system, interpreter, and Internet--all extensively tested and ready to jump-start application development. Now, Python expert Doug Hellmann introduces every major area of the Python 3.x library through concise source code and output examples. Hellmann's examples fully demonstrate each feature and are designed for easy learning and reuse. You'll find practical code for working with text, data structures, algorithms, dates/times, math, the file system, persistence, data exchange, compression, archiving, crypto, processes/threads, networking, Internet capabilities, email, developer and language tools, the runtime, packages, and more. Each section fully covers one module, with links to additional resources, making this book an ideal tutorial and reference. The Python 3 Standard Library by Example introduces Python 3.x's new libraries, significant functionality changes, and new layout and naming conventions. Hellmann also provides expert porting guidance for moving code from 2.x Python standard library modules to their Python 3.x equivalents. Manipulate text with string, textwrap, re (regular expressions), and difflib Use data structures: enum, collections, array, heapq, queue, struct, copy, and more Implement algorithms elegantly and concisely with functools, itertools, and contextlib Handle dates/times and advanced mathematical tasks Archive and data compression Understand data exchange and persistence, including json, dbm, and sqlite Sign and verify messages cryptographically Manage concurrent operations with processes and threads Test, debug, compile, profile, language, import, and package tools Control interaction at runtime with interpreters or the environment

AMERICAN ACCENT TRAINING

[Barron's Educational Series, Incorporated](#) Directed to speakers of English as a second language, a multi-media guide to pronouncing American English uses a "pure-sound" approach to speaking to help imitate the fluid ways of American speech.

INTRODUCTION TO THE NEW MAINFRAME: SECURITY

[IBM Redbooks](#) This book provides students of information systems with the background knowledge and skills necessary to begin using the basic security facilities of IBM System z. It enables a broad understanding of both the security principles and the hardware and software components needed to insure that the mainframe resources and environment are secure. It also explains how System z components interface with some non-System z components. A multi-user, multi-application, multi-task environment such as System z requires a different level of security than that typically encountered on a single-user platform. In addition, when a mainframe is connected in a network to other processors, a multi-layered approach to security is recommended. Students are assumed to have successfully completed introductory courses in computer system concepts. Although this course looks into all the operating systems on System z, the main focus is on IBM z/OS. Thus, it is strongly recommended that students have also completed an introductory course on z/OS. Others who will benefit from this course include experienced data processing professionals who have worked with non-mainframe-based platforms, as well as those who are familiar with some aspects of the mainframe environment or applications but want to learn more about the security and integrity facilities and advantages offered by the mainframe environment.

SENSUAL DRUGS

DEPRIVATION AND REHABILITATION OF THE MIND

[Cambridge University Press](#) A medical physiologist and counselor to thousands of drug users and a nutritionist present evidence that marijuana and other drugs taken to enhance sensual experience cause physical and psychological damage and describe various rehabilitation strategies

A CONNECTED CURRICULUM FOR HIGHER EDUCATION

[UCL Press](#) Is it possible to bring university research and student education into a more connected, more symbiotic relationship? If so, can we develop programmes of study that enable faculty, students and 'real world' communities to connect in new ways? In this accessible book, Dilly Fung argues that it is not only possible but also potentially transformational to develop new forms of research-based education. Presenting the Connected Curriculum framework already adopted by UCL, she opens windows onto new initiatives related to, for example, research-based education, internationalisation, the global classroom, interdisciplinarity and public engagement. A Connected Curriculum for Higher Education is, however, not just about developing engaging programmes of study. Drawing on the field of philosophical hermeneutics, Fung argues how the Connected Curriculum framework can help to create spaces for critical dialogue about educational values, both within and across existing research groups, teaching departments and learning communities. Drawing on vignettes of practice from around the world, she argues that developing the synergies between research and education can empower faculty members and students from all backgrounds to contribute to the global common good.

BASIC FINANCIAL ACCOUNTING

Designed to promote an exposition of the basic principles of the subject and satisfy the requirements of a bridging course, this text aims to be of use to any person who has never before encountered the basic maxims of accountancy.

A FIRST COURSE IN LINEAR ALGEBRA

"A First Course in Linear Algebra, originally by K. Kuttler, has been redesigned by the Lyryx editorial team as a first course for the general students who have an understanding of basic high school algebra and intend to be users of linear algebra methods in their profession, from business & economics to science students. All major topics of linear algebra are available in detail, as well as justifications of important results. In addition, connections to topics covered in advanced courses are introduced. The textbook is designed in a modular fashion to maximize flexibility and facilitate adaptation to a given course outline and student profile. Each chapter begins with a list of student learning outcomes, and examples and diagrams are given throughout the text to reinforce ideas and provide guidance on how to approach various problems. Suggested exercises are included at the end of each section, with selected answers at the end of the textbook."--BCcampus website.

THRESHOLD CONCEPTS AND TRANSFORMATIONAL LEARNING

[BRILL](#) Over the last decade the notion of 'threshold concepts' has proved influential around the world as a powerful means of exploring and discussing the key points of transformation that students experience in their higher education courses and the 'troublesome knowledge' that these often present.

BIOPHYSICAL TECHNIQUES FOR STRUCTURAL CHARACTERIZATION OF MACROMOLECULES

WIRELESS COMMUNICATIONS

John Wiley & Sons "Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, *Wireless Communications*. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field." —Professor Moe Win, MIT, USA Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, *Wireless Communications, Second Edition* provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

FUNCTIONAL PROGRAMMING IN SCALA

Simon and Schuster Summary *Functional Programming in Scala* is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding. The book guides readers from basic techniques to advanced topics in a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology *Functional programming (FP)* is a style of software development emphasizing functions that don't depend on program state. Functional code is easier to test and reuse, simpler to parallelize, and less prone to bugs than other code. *Scala* is an emerging JVM language that offers strong support for FP. Its familiar syntax and transparent interoperability with Java make *Scala* a great place to start learning FP. About the Book *Functional Programming in Scala* is a serious tutorial for programmers looking to learn FP and apply it to their everyday work. The book guides readers from basic techniques to advanced topics in a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. This book assumes no prior experience with functional programming. Some prior exposure to *Scala* or *Java* is helpful. What's Inside *Functional programming concepts* The whys and hows of FP How to write multicore programs Exercises and checks for understanding About the Authors *Paul Chiusano* and *Rúnar Bjarnason* are recognized experts in functional programming with *Scala* and are core contributors to the *Scalaz* library. Table of Contents PART 1 INTRODUCTION TO FUNCTIONAL PROGRAMMING What is functional programming? Getting started with functional programming in *Scala* Functional data structures Handling errors without exceptions Strictness and laziness Purely functional state PART 2 FUNCTIONAL DESIGN AND COMBINATOR LIBRARIES Purely functional parallelism Property-based testing Parser combinators PART 3 COMMON STRUCTURES IN FUNCTIONAL DESIGN Monoids Monads Applicative and traversable functors PART 4 EFFECTS AND I/O External effects and I/O Local effects and mutable state Stream processing and incremental I/O

CEH CERTIFIED ETHICAL HACKER PRACTICE EXAMS

McGraw Hill Professional The perfect supplement to *CEH Certified Ethical Hacker All-in-One Exam Guide*, this practice exams book provides valuable test preparation for candidates preparing to pass the exam and achieve one of the fastest-growing information security credentials available. Designed as an exam-focused study-self aid and resource, *CEH Certified Ethical Hacker Practice Exams* offers practice test items from each domain of the latest CEH exam, and provides knowledge and scenario-based questions plus one case study-based Lab Question per chapter. In-depth answer explanations for both the correct and incorrect answers are included. The book contains more than 400 practice exam questions (in the book and electronic content) that match the actual exam questions in content and feel. The CEH Program certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. A Certified Ethical Hacker is a skilled IT professional responsible for testing the weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker. Covers all exam topics, including intrusion detection, policy creation, social engineering, ddos attacks, buffer overflows, virus creation, and more Based on the 2011 CEH exam update Electronic content includes two complete practice exam simulations Market / Audience The Certified Ethical Hacker certification certifies the application knowledge of security officers, auditors, security professionals, site administrators, and anyone who is concerned about the integrity of the network infrastructure. DOD 8570 workforce requirements include CEH as an approved commercial credential US-CERT's EBK and Certified Computer Security Incident Handler (CSIH) standards map to CEH CEH is an international, vendor-neutral certification that can be taken at any Prometric or VUE testing center worldwide. The exam costs \$250. The Ethical Hacker is usually employed with the organization and can be trusted to undertake an attempt to penetrate networks and/or computer systems using the same methods as a Hacker. Hacking is a felony in the United States and most other countries. When it is done by request and under a contract between an Ethical Hacker and an organization, it is legal. The most important point is that an Ethical Hacker has authorization to probe the target. **Matt Walker**, CCNA, CCNP, MCSE, CEH, CNDA, CPTS (Ft. Lauderdale, FL) is the IA Training Instructor Supervisor and a Sr. IA Analyst at Dynetics, Inc., in Huntsville, Alabama. An IT education professional for over 15 years, Matt served as the Director of Network Training Center and the Curriculum Lead and Senior Instructor for the local Cisco Networking Academy on Ramstein AB, Germany. After leaving the US Air Force, Matt served as a Network Engineer for NASA's Secure Network Systems, designing and maintaining secured data, voice and video networking for the agency.

ERLANG AND OTP IN ACTION

Simon and Schuster Concurrent programming has become a required discipline for all programmers. Multi-core processors and the increasing demand for maximum performance and scalability in mission-critical applications have renewed interest in functional languages like Erlang that are designed to handle concurrent programming. Erlang, and the OTP platform, make it possible to deliver more robust applications that satisfy rigorous uptime and performance requirements. Erlang and OTP in Action teaches you to apply Erlang's message passing model for concurrent programming--a completely different way of tackling the problem of parallel programming from the more common multi-threaded approach. This book walks you through the practical considerations and steps of building systems in Erlang and integrating them with real-world C/C++, Java, and .NET applications. Unlike other books on the market, Erlang and OTP in Action offers a comprehensive view of how concurrency relates to SOA and web technologies. This hands-on guide is perfect for readers just learning Erlang or for those who want to apply their theoretical knowledge of this powerful language. You'll delve into the Erlang language and OTP runtime by building several progressively more interesting real-world distributed applications. Once you are competent in the fundamentals of Erlang, the book takes you on a deep dive into the process of designing complex software systems in Erlang. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

THE STRUCTURE OF COMPACT GROUPS

A PRIMER FOR STUDENTS - A HANDBOOK FOR THE EXPERT

Deals with the subject matter of compact groups that is frequently cited in fields like algebra, topology, functional analysis, and theoretical physics. This book is suitable for upper level graduate courses or seminars. It is useful for research specialists who need to apply the structure and representation theory of compact groups.

MATHEMATICAL MODELING IN SYSTEMS BIOLOGY

AN INTRODUCTION

MIT Press An introduction to the mathematical concepts and techniques needed for the construction and analysis of models in molecular systems biology. Systems techniques are integral to current research in molecular cell biology, and system-level investigations are often accompanied by mathematical models. These models serve as working hypotheses: they help us to understand and predict the behavior of complex systems. This book offers an introduction to mathematical concepts and techniques needed for the construction and interpretation of models in molecular systems biology. It is accessible to upper-level undergraduate or graduate students in life science or engineering who have some familiarity with calculus, and will be a useful reference for researchers at all levels. The first four chapters cover the basics of mathematical modeling in molecular systems biology. The last four chapters address specific biological domains, treating modeling of metabolic networks, of signal transduction pathways, of gene regulatory networks, and of electrophysiology and neuronal action potentials. Chapters 3-8 end with optional sections that address more specialized modeling topics. Exercises, solvable with pen-and-paper calculations, appear throughout the text to encourage interaction with the mathematical techniques. More involved end-of-chapter problem sets require computational software. Appendixes provide a review of basic concepts of molecular biology, additional mathematical background material, and tutorials for two computational software packages (XPPAUT and MATLAB) that can be used for model simulation and analysis.

WORKING WITH ACADEMIC LITERACIES

CASE STUDIES TOWARDS TRANSFORMATIVE PRACTICE

[Parlor Press LLC](#) The editors and contributors to this collection explore what it means to adopt an “academic literacies” approach in policy and pedagogy. Transformative practice is illustrated through case studies and critical commentaries from teacher-researchers working in a range of higher education contexts—from undergraduate to postgraduate levels, across disciplines, and spanning geopolitical regions including Australia, Brazil, Canada, Cataluña, Finland, France, Ireland, Portugal, South Africa, the United Kingdom, and the United States.

A COURSE IN LINEAR ALGEBRA

[Courier Corporation](#) "Suitable for advanced undergraduates and graduate students, this text introduces basic concepts of linear algebra. Each chapter contains an introduction, definitions, and propositions, in addition to multiple examples, lemmas, theorems, corollaries, and proofs. Each chapter features numerous supplemental exercises, and solutions to selected problems appear at the end. 1988 edition"--

MOBILE COMMUNICATIONS

[Pearson Education India](#)

CHINESE LINK

ELEMENTARY CHINESE. LEVEL 1

[Prentice Hall](#) Provides an elementary approach to learning Chinese. Both versions represent the traditional and simplified characters, focusing on the character type represented in the title. Elementary Chinese with exposure to both character types. Practice is given to writing of the character types and there is an abundance of practice with the language and the culture. Intended for those interested in learning Chinese.

A HANDBOOK FOR TEACHING AND LEARNING IN HIGHER EDUCATION

ENHANCING ACADEMIC PRACTICE

[Routledge](#) First Published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

TOPOSES, TRIPLES AND THEORIES

[Springer](#) As its title suggests, this book is an introduction to three ideas and the connections between them. Before describing the content of the book in detail, we describe each concept briefly. More extensive introductory descriptions of each concept are in the introductions and notes to Chapters 2, 3 and 4. A topos is a special kind of category defined by axioms saying roughly that certain constructions one can make with sets can be done in the category. In that sense, a topos is a generalized set theory. However, it originated with Grothendieck and Giraud as an abstraction of the of the category of sheaves of sets on a topological space. Later, properties Lawvere and Tierney introduced a more general id~a which they called "elementary topos" (because their axioms did not quantify over sets), and they and other mathematicians developed the idea that a theory in the sense of mathematical logic can be regarded as a topos, perhaps after a process of completion. The concept of triple originated (under the name "standard construc in Godement's book on sheaf theory for the purpose of computing tions") sheaf cohomology. Then Peter Huber discovered that triples capture much of the information of adjoint pairs. Later Linton discovered that triples gave an equivalent approach to Lawverc's theory of equational theories (or rather the infinite generalizations of that theory). Finally, triples have turned out to be a very important tool for deriving various properties of toposes.

CALCULATE WITH CONFIDENCE

[Mosby](#) This popular text covers the ratio and proportion, formula, and dimensional analysis methods offering a step-by-step approach to the calculation and administration of drug dosages. With over 2,000 practice problems, Gray Morris focuses on enhancing the learning experience of nursing students at all curricular levels by making content clinically applicable. Calculate with Confidence, 6th Edition addresses the increasing responsibility of the nurse in medication administration, prioritizes client safety, and reflects the current scope of practice. Tips for Clinical Practice boxes call attention to information critical to math calculation and patient safety. Safety Alert boxes highlight issues that may lead to medication errors and empower you to identify actions that must be taken to avoid calculation errors Chapter review problems test all major topics presented in the chapter. Separate basic math review test allows you to assess and evaluate your understanding of basic math material covered in Unit 1, directing you to review chapters if you miss any of these test questions. Pre-test basic math review tests help you assess your basic math skills and identify areas of strength and weakness in competency of basic math. Comprehensive unit on basic math review offers complete coverage of basic math: roman numerals, fractions, decimals, ratio and proportion, and percentages. NEW! Integration of QSEN information related to patient safety in the Medication Administration chapter and throughout text. NEW! NCLEX-style questions on Evolve help prepare you for the NCLEX-RN Examination. NEW! Content additions and updates includes word problems involving dosages, Critical Thinking Scenarios, a discussion of the concepts regarding safety issues with medication administration, plus significant updates in the insulin, critical care and IV chapters. NEW! Reorganization of Answer Key features answers and the work to practice problems at the end of each chapter rather than in the back of the book.