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KEY=COMPLEX - NEAL TURNER

COMPLEX ANALYSIS

Princeton University Press *With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, Complex Analysis will be welcomed by students of mathematics, physics, engineering and other sciences. The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which Complex Analysis is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.*

ANALYSIS AND GEOMETRY IN SEVERAL COMPLEX VARIABLES

PROCEEDINGS OF THE 40TH TANIGUCHI SYMPOSIUM

Birkhäuser *This volume consists of a collection of articles for the proceedings of the 40th Taniguchi Symposium Analysis and Geometry in Several Complex Variables held in Katata, Japan, on June 23-28, 1997. Since the inhomogeneous Cauchy-Riemann equation was introduced in the study of Complex Analysis of Several Variables, there has been strong interaction between Complex Analysis and Real Analysis, in particular, the theory of Partial Differential Equations. Problems in Complex Analysis stimulate the development of the PDE theory which subsequently can be applied to Complex Analysis. This interaction involves Differential Geometry, for instance, via the CR structure modeled on the induced structure on the boundary of a complex manifold. Such structures are naturally related to the PDE theory. Differential Geometric formalisms are efficiently used in settling problems in Complex Analysis and the results enrich the theory of Differential Geometry. This volume focuses on the most recent developments in this interaction, including links with other fields such as Algebraic Geometry and Theoretical Physics. Written by participants in the Symposium, this volume treats various aspects of CR geometry and the Bergman kernel/projection, together with other major subjects in modern Complex Analysis. We hope that this volume will serve as a resource for all who are interested in the new trends in this area. We would like to express our gratitude to the Taniguchi Foundation for generous financial support and hospitality. We would also like to thank Professor Kiyosi Ito who coordinated the organization of the symposium.*

CLASSICAL COMPLEX ANALYSIS

Jones & Bartlett Learning *Classic Complex Analysis is a text that has been developed over decades of teaching with an enthusiastic student reception. The first half of the book focuses on the core material. An early chapter on power series gives the reader concrete examples of analytic functions and a review of calculus. Mobius transformations are presented with emphasis on the geometric aspect, and the Cauchy theorem is covered in the classical manner. The remaining chapters provide an elegant and solid overview of special topics such as Entire and Meromorphic Functions, Analytic Continuation, Normal Families, Conformal Mapping, and Harmonic Functions.*

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press *Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.*

COMPLEX ANALYSIS

Springer Science & Business Media *The present book is meant as a text for a course on complex analysis at the advanced undergraduate level, or first-year graduate level. Somewhat more material has been included than can be covered at leisure in one term, to give opportunities for the instructor to exercise his taste, and lead the course in whatever direction strikes his fancy at the time. A large number of routine exercises are included for the more standard portions, and a few harder exercises of striking theoretical interest are also included, but may be omitted in courses addressed to less advanced students. In some sense, I think the classical German prewar texts were the best (Hurwitz-Courant, Knopp, Bieberbach, etc.) and I would recommend to anyone to look through them. More recent texts have emphasized connections with real analysis, which is important, but at the cost of exhibiting succinctly and clearly what is peculiar about complex analysis: the power series expansion, the uniqueness of analytic continuation, and the calculus of residues. The systematic elementary development of formal and convergent power series was standard fare in the German texts, but only Cartan, in the more recent books, includes this material, which I think is quite essential, e. g. , for differential equations. I have written a short text, exhibiting these features, making it applicable to a wide variety of tastes. The book essentially decomposes into two parts.*

THE REVOLUTION WILL NOT BE FUNDED

BEYOND THE NON-PROFIT INDUSTRIAL COMPLEX

Duke University Press *A trillion-dollar industry, the US non-profit sector is one of the world's largest economies. From art museums and university hospitals to think tanks and church charities, over 1.5 million organizations of staggering diversity share the tax-exempt 501(c)(3) designation, if little else. Many social justice organizations have joined this world, often blunting political goals to satisfy government and foundation mandates. But even as funding shrinks, many activists often find it difficult to imagine movement-building outside the non-profit model. The Revolution Will Not Be Funded gathers essays by radical activists, educators, and non-profit staff from around the globe who critically rethink the long-term consequences of what they call the "non-profit industrial complex." Drawing on their own experiences, the contributors track the history of non-profits and provide strategies to transform and work outside them. Urgent and visionary, The Revolution Will Not Be Funded presents a biting critique of the quietly devastating role the non-profit industrial complex plays in managing dissent. Contributors. Christine E. Ahn, Robert L. Allen, Alisa Bierria, Nicole Burrowes, Communities Against Rape and Abuse (CARA), William Cordery, Morgan Cousins, Ruth Wilson Gilmore, Stephanie Guilloud, Adjoa Florência Jones de Almeida, Tiffany Lethabo King, Paul Kivel, Soniya Munshi, Ewuare Osayande, Amara H. Pérez, Project South: Institute for the Elimination of Poverty and Genocide, Dylan Rodríguez, Paula X. Rojas, Ana Clarissa Rojas Durazo, Sisters in Action for Power, Andrea Smith, Eric Tang, Madonna Thunder Hawk, Ije Ude, Craig Willse*

TRANSFORMATIONAL CHANGE FOR PEOPLE AND THE PLANET

EVALUATING ENVIRONMENT AND DEVELOPMENT

Springer Nature *This Open Access book deals with the pressing question of how to achieve transformational change that reconciles development with environmental sustainability. It particularly focuses on the role of evaluation in finding sustainable solutions. Environment and development are closely interlinked, as are human health and ecosystem health. The pandemic that began in 2020 demonstrated*

in no uncertain terms how destruction of habitats has allowed hitherto unknown pathogens spill over to humans wreaking havoc on people's lives and livelihoods. We are already seeing the impacts of global climate change in terms of heatwaves, forest fires and increased storms. The Sustainable Development Goals (SDGs) explicitly recognize the equal importance of the social, economic and environmental dimensions of development. In these turbulent times, when humankind faces multiple complex challenges it is essential to know that our responses are effective and that they make a positive difference. Evaluation can provide invaluable lessons to how we design policies, strategies and programs and how we allocate limited resources between competing priorities. This book brings together key thinkers and practitioners from the public and private sectors, from major multilateral organizations and from bilateral donor agencies, to present the latest knowledge and experience on how to evaluate interventions in the nexus of environment and development. The book does not promote any particular approach or methodology, but rather emphasizes the need for mixed methods to address the question at hand in the best and most suitable manner. It covers cases from a variety of fields, from climate change mitigation and adaptation, energy efficiency and renewable energy, natural resources management, biodiversity conservation and more. This book is not a conference proceedings although it has its roots in the Third International Conference on Evaluating Environment and Development organized by the GEF Independent Evaluation Office in October 2019. The conference brought together a larger number of established and upcoming evaluators, researchers and evaluation users from the Global North and South, representing a wide variety of organizations, to discuss the frontiers of environment and development evaluation. Following the conference, the editors identified and contacted the participants who made key contributions at the conference and asked them to develop their ideas and papers into book chapters according to a coherent plan.

THE EVALUATION OF COMPLEX INFRASTRUCTURE PROJECTS

A GUIDE TO QUALITATIVE COMPARATIVE ANALYSIS

Edward Elgar Publishing *Infrastructure projects are notoriously hard to manage so it is important that society learns from the successes and mistakes made over time. However, most evaluation methods run into a conundrum: either they cover a large number of projects but have little to say about their details, or they focus on detailed single-case studies with little in terms of applicability elsewhere. This book presents Qualitative Comparative Analysis (QCA) as an alternative evaluation method that solves the conundrum to enhance learning.*

COMPLEX VARIABLES

THEORY AND APPLICATIONS

PHI Learning Pvt. Ltd. *The second edition of this comprehensive and accessible text continues to offer students a challenging and enjoyable study of complex variables that is infused with perfect balanced coverage of mathematical theory and applied topics. The author explains fundamental concepts and techniques with precision and introduces the students to complex variable theory through conceptual development of analysis that enables them to develop a thorough understanding of the topics discussed. Geometric interpretation of the results, wherever necessary, has been inducted for making the analysis more accessible. The level of the text assumes that the reader is acquainted with elementary real analysis. Beginning with the revision of the algebra of complex variables, the book moves on to deal with analytic functions, elementary functions, complex integration, sequences, series and infinite products, series expansions, singularities and residues. The application-oriented chapters on sums and integrals, conformal mappings, Laplace transform, and some special topics, provide a practical-use perspective. Enriched with many numerical examples and exercises designed to test the student's comprehension of the topics covered, this book is written for a one-semester course in complex variables for students in the science and engineering disciplines.*

ADDRESSING ADVERSITY

PRIORITISING ADVERSITY AND TRAUMA-INFORMED CARE FOR CHILDREN AND YOUNG PEOPLE IN ENGLAND.

YoungMinds / Health Education England / Human-Experience *An edited collection of papers published by YoungMinds and funded by Health Education England. With 1 in 3 adult mental health conditions related directly to adverse childhood experiences, it is vital that we understand the impact that adversity and trauma can have on the mental health and wellbeing of young people, and how we can strengthen resilience and support recovery. Addressing Adversity presents evidence, insight, direction and case studies for commissioners, providers and practitioners in order to stimulate further growth in adversity and trauma-informed care, and spark innovation and good practice across England. Section 1: Understanding adversity, trauma and resilience includes evidence and analysis of the impact that adverse childhood experiences and trauma have on children and young people's mental health and wider outcomes across the lifecourse. Section 2: Addressing childhood adversity and trauma includes insights from the NHS in England, organisations and clinicians working with children and young people who have experienced forms of adversity and trauma. Section 3: Emerging good practice includes insight, case studies and working examples of adversity and trauma-informed service models being developed across England. The collection ends with an agenda for change, calling on all Directors of Public Health, commissioners and providers to make adversity and trauma-informed care a priority in their locality.*

EXPLORING AND OPTIMIZING AGRICULTURAL LANDSCAPES

Springer Nature *The book informs about agricultural landscapes, their features, functions and regulatory mechanisms. It characterizes agricultural production systems, trends of their development, and their impacts on the landscape. Agricultural landscapes are multifunctional systems, coupled with all nexus problems of the 21th century. This has led to serious discrepancies between agriculture and environment, and between urban and rural population. The mission, key topics and methods of research in order to understanding, monitoring and controlling processes in rural landscapes is being explained. Studies of international expert teams, many of them from Russia, demonstrate approaches towards both improving agricultural productivity and sustainability, and enhancing ecosystem services of agricultural landscapes. Scientists of different disciplines, decision makers, farmers and further informed people dealing with the evolvement of thriving rural landscapes are the primary audience of this book.*

COMPLEX SURVEYS

A GUIDE TO ANALYSIS USING R

John Wiley & Sons *A complete guide to carrying out complex survey analysis using R. As survey analysis continues to serve as a core component of sociological research, researchers are increasingly relying upon data gathered from complex surveys to carry out traditional analyses. Complex Surveys is a practical guide to the analysis of this kind of data using R, the freely available and downloadable statistical programming language. As creator of this specific survey package for R, the author provides the ultimate presentation of how to successfully use the software for analyzing data from complex surveys while also utilizing the most current data from health and social sciences studies to demonstrate the application of survey research methods in these fields. The book begins with coverage of basic tools and topics within survey analysis such as simple and stratified sampling, cluster sampling, linear regression, and categorical data regression. Subsequent chapters delve into more technical aspects of complex survey analysis, including post-stratification, two-phase sampling, missing data, and causal inference. Throughout the book, an emphasis is placed on graphics, regression modeling, and two-phase designs. In addition, the author supplies a unique discussion of epidemiological two-phase designs as well as probability-weighting for causal inference. All of the book's examples and figures are generated using R, and a related Web site provides the R code that allows readers to reproduce the presented content. Each chapter concludes with exercises that vary in level of complexity, and detailed appendices outline additional mathematical and computational descriptions to assist readers with comparing results from various software systems. Complex Surveys is an excellent book for courses on sampling and complex surveys at the upper-undergraduate and graduate levels. It is also a practical reference guide for applied statisticians and practitioners in the social and health sciences who use statistics in their everyday work.*

MATHEMATICS FOR MACHINE LEARNING

Cambridge University Press *Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.*

AN INTRODUCTION TO COMPLEX ANALYSIS AND GEOMETRY

American Mathematical Soc. *An Introduction to Complex Analysis and Geometry provides the reader with a deep appreciation of complex analysis and how this subject fits into mathematics. The book developed from courses given in the Campus Honors Program at the University of Illinois Urbana-Champaign. These courses aimed to share with students the way many mathematics and physics problems magically simplify when viewed from the perspective of complex analysis. The book begins at an elementary level but also contains advanced material. The first four chapters provide an introduction to complex analysis with many elementary and unusual applications. Chapters 5 through 7 develop the Cauchy theory and include some striking applications to calculus. Chapter 8 glimpses several appealing topics, simultaneously unifying the book and opening the door to further study. The 280 exercises range from simple computations to difficult problems. Their variety makes the book especially attractive. A reader of the first four chapters will be able to apply complex numbers in many elementary contexts. A reader of the full book will know basic one complex variable theory and will have seen it integrated into mathematics as a whole. Research mathematicians will discover several novel perspectives.*

PEDAGOGY OF THE OPPRESSED

PYTHON FOR DATA ANALYSIS

DATA WRANGLING WITH PANDAS, NUMPY, AND IPYTHON

"O'Reilly Media, Inc." Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

PSYCHOLOGY OF INTELLIGENCE ANALYSIS

Pickle Partners Publishing In this seminal work, published by the C.I.A. itself, produced by Intelligence veteran Richards Heuer discusses three pivotal points. First, human minds are ill-equipped ("poorly wired") to cope effectively with both inherent and induced uncertainty. Second, increased knowledge of our inherent biases tends to be of little assistance to the analyst. And lastly, tools and techniques that apply higher levels of critical thinking can substantially improve analysis on complex problems.

NEURODYNAMICS: AN EXPLORATION IN MESOSCOPIC BRAIN DYNAMICS

Springer Science & Business Media Cortical evoked potentials are of interest primarily as tests of changing neuronal excitabilities accompanying normal brain function. The first three steps in the analysis of these complex waveforms are proper placement of electrodes for recording, the proper choice of electrical or sensory stimulus parameters, and the establishment of behavioral control. The fourth is development of techniques for reliable measurement. Measurement consists of comparison of an unknown entity with a set of standard scales or dimensions having numerical attributes in preassigned degree. A physical object can be described by the dimensions of size, mass, density, etc. In addition there are dimensions such as location, velocity, weight, hardness, etc. Some of these dimensions can be complex (e. g. size depends on three or more subsidiary coordinates), and some can be interdependent or nonorthogonal (e. g. specification of size and mass may determine density). In each dimension the unit is defined with reference to a standard physical entity, e. g. a unit of mass or length, and the result of measurement is expressed as an equivalence between the unknown and the sum of a specified number of units of that entity. The dimensions of a complex waveform are elementary waveforms from which that waveform can be built by simple addition. Any finite single-valued function of time is admissible. They are called basis functions (IO, 15), and they can be expressed in numeric as well as geometric form.

AN INTRODUCTION TO MANIFOLDS

Springer Science & Business Media Manifolds, the higher-dimensional analogs of smooth curves and surfaces, are fundamental objects in modern mathematics. Combining aspects of algebra, topology, and analysis, manifolds have also been applied to classical mechanics, general relativity, and quantum field theory. In this streamlined introduction to the subject, the theory of manifolds is presented with the aim of helping the reader achieve a rapid mastery of the essential topics. By the end of the book the reader should be able to compute, at least for simple spaces, one of the most basic topological invariants of a manifold, its de Rham cohomology. Along the way, the reader acquires the knowledge and skills necessary for further study of geometry and topology. The requisite point-set topology is included in an appendix of twenty pages; other appendices review facts from real analysis and linear algebra. Hints and solutions are provided to many of the exercises and problems. This work may be used as the text for a one-semester graduate or advanced undergraduate course, as well as by students engaged in self-study. Requiring only minimal undergraduate prerequisites, 'Introduction to Manifolds' is also an excellent foundation for Springer's GTM 82, 'Differential Forms in Algebraic Topology'.

BAYESIAN METHODS IN HEALTH ECONOMICS

CRC Press Health economics is concerned with the study of the cost-effectiveness of health care interventions. This book provides an overview of Bayesian methods for the analysis of health economic data. After an introduction to the basic economic concepts and methods of evaluation, it presents Bayesian statistics using accessible mathematics. The next chapters describe the theory and practice of cost-effectiveness analysis from a statistical viewpoint, and Bayesian computation, notably MCMC. The final chapter presents three detailed case studies covering cost-effectiveness analyses using individual data from clinical trials, evidence synthesis and hierarchical models and Markov models. The text uses WinBUGS and JAGS with datasets and code available online.

FEEDBACK SYSTEMS

AN INTRODUCTION FOR SCIENTISTS AND ENGINEERS, SECOND EDITION

Princeton University Press *The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory*

ANALYSIS I

THIRD EDITION

Springer *This is part one of a two-volume book on real analysis and is intended for senior undergraduate students of mathematics who have already been exposed to calculus. The emphasis is on rigour and foundations of analysis. Beginning with the construction of the number systems and set theory, the book discusses the basics of analysis (limits, series, continuity, differentiation, Riemann integration), through to power series, several variable calculus and Fourier analysis, and then finally the Lebesgue integral. These are almost entirely set in the concrete setting of the real line and Euclidean spaces, although there is some material on abstract metric and topological spaces. The book also has appendices on mathematical logic and the decimal system. The entire text (omitting some less central topics) can be taught in two quarters of 25–30 lectures each. The course material is deeply intertwined with the exercises, as it is intended that the student actively learn the material (and practice thinking and writing rigorously) by proving several of the key results in the theory.*

FOUNDATIONS OF COMPLEX-SYSTEM THEORIES

IN ECONOMICS, EVOLUTIONARY BIOLOGY, AND STATISTICAL PHYSICS

Cambridge University Press *Analyzes approaches to the study of complexity in the physical, biological, and social sciences.*

SUCCESSFUL QUALITATIVE RESEARCH

A PRACTICAL GUIDE FOR BEGINNERS

SAGE *This accessible, practical 'how to' guide provides students with a step-by-step toolkit of the why, when and how of qualitative methods, for anyone studying qualitative research or doing a research project.*

COMPLEX SURVEYS

A GUIDE TO ANALYSIS USING R

Wiley *A complete guide to carrying out complex survey analysis using R As survey analysis continues to serve as a core component of sociological research, researchers are increasingly relying upon data gathered from complex surveys to carry out traditional analyses. Complex Surveys is a practical guide to the analysis of this kind of data using R, the freely available and downloadable statistical programming language. As creator of the specific survey package for R, the author provides the ultimate presentation of how to successfully use the software for analyzing data from complex surveys*

while also utilizing the most current data from health and social sciences studies to demonstrate the application of survey research methods in these fields. The book begins with coverage of basic tools and topics within survey analysis such as simple and stratified sampling, cluster sampling, linear regression, and categorical data regression. Subsequent chapters delve into more technical aspects of complex survey analysis, including post-stratification, two-phase sampling, missing data, and causal inference. Throughout the book, an emphasis is placed on graphics, regression modeling, and two-phase designs. In addition, the author supplies a unique discussion of epidemiological two-phase designs as well as probability-weighting for causal inference. All of the book's examples and figures are generated using R, and a related Web site provides the R code that allows readers to reproduce the presented content. Each chapter concludes with exercises that vary in level of complexity, and detailed appendices outline additional mathematical and computational descriptions to assist readers with comparing results from various software systems. *Complex Surveys* is an excellent book for courses on sampling and complex surveys at the upper-undergraduate and graduate levels. It is also a practical reference guide for applied statisticians and practitioners in the social and health sciences who use statistics in their everyday work.

CONTEMPORARY HEALTHCARE ISSUES IN SUB-SAHARAN AFRICA

SOCIAL, ECONOMIC, AND CULTURAL PERSPECTIVES

Rowman & Littlefield *This book discusses contemporary healthcare issues in Sub-Saharan Africa to identify deficiencies in the system and provide recommendations for strengthening healthcare on the continent. Experts in clinical medicine, economics, public health, and the social sciences provide in-depth analyses of current issues that blend theory and practice.*

A FIRST COURSE IN COMPLEX ANALYSIS WITH APPLICATIONS

Jones & Bartlett Learning *The new Second Edition of A First Course in Complex Analysis with Applications is a truly accessible introduction to the fundamental principles and applications of complex analysis. Designed for the undergraduate student with a calculus background but no prior experience with complex variables, this text discusses theory of the most relevant mathematical topics in a student-friendly manner. With Zill's clear and straightforward writing style, concepts are introduced through numerous examples and clear illustrations. Students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate section on the applications of complex variables, providing students with the opportunity to develop a practical and clear understanding of complex analysis.*

GRAMMAR AND SYNTAX

DEVELOPING SCHOOL-AGE CHILDREN'S ORAL AND WRITTEN LANGUAGE SKILLS

Plural Publishing *Grammar and Syntax: Developing School-Age Children's Oral and Written Language Skills provides insight for clinical speech-language pathologists (SLPs) as well as students and faculty in communication sciences and disorders programs. Offering a practicing speech-language pathologist's perspective on school-age language development, this professional reference book focuses on later language development and the crucial role oral grammar and syntax plays in successful academic performance. This resource synthesizes the four main components of professional expertise for SLPs: academic and theoretical knowledge, strategies for gathering diagnostic evidence, the ability to seek, understand, and apply evolving scientific evidence, and the application of therapeutic strategies. Designed to encourage creative approaches to curriculum-based speech-language therapy practices, Grammar and Syntax: Developing School-Age Children's Oral and Written Language Skills provides the foundation SLPs need to help children and adolescents achieve academic success. Key Features: * Anticipation guides at the beginning of each chapter stimulate readers to prepare for reading * Bolded key terms and a comprehensive glossary improve retention of material * Related resources in addition to cited sources provide jumping off points for deeper understanding * Tables of language development references to use at-a-glance * An evidence-based approach that references many primary and historical sources, including the "big names" in each content area * A unique combination of the perspectives of language development and language disorders with literacy development and literacy difficulties*

THE HAUPTVERMUTUNG BOOK

A COLLECTION OF PAPERS ON THE TOPOLOGY OF MANIFOLDS

Springer Science & Business Media *The Hauptvermutung is the conjecture that any two triangulations of a polyhedron are combinatorially equivalent. The conjecture was formulated at the turn of the century, and until its resolution was a central problem of topology. Initially, it was verified for low-dimensional polyhedra, and it might have been expected that further development of high-dimensional topology would lead to a verification in all dimensions. However, in 1961 Milnor constructed high-dimensional polyhedra with combinatorially inequivalent triangulations, disproving the Hauptvermutung in*

general. These polyhedra were not manifolds, leaving open the Hauptvermutung for manifolds. The development of surgery theory led to the disproof of the high-dimensional manifold Hauptvermutung in the late 1960's. Unfortunately, the published record of the manifold Hauptvermutung has been incomplete, as was forcefully pointed out by Novikov in his lecture at the Browder 60th birthday conference held at Princeton in March 1994. This volume brings together the original 1967 papers of Casson and Sullivan, and the 1968/1972 'Princeton notes on the Hauptvermutung' of Armstrong, Rourke and Cooke, making this work physically accessible. These papers include several other results which have become part of the folklore but of which proofs have never been published. My own contribution is intended to serve as an introduction to the Hauptvermutung, and also to give an account of some more recent developments in the area. In preparing the original papers for publication, only minimal changes of punctuation etc.

GOVERNANCE NETWORKS IN THE PUBLIC SECTOR

Routledge *Governance Networks in the Public Sector* presents a comprehensive study of governance networks and the management of complexities in network settings. Public, private and non-profit organizations are increasingly faced with complex, wicked problems when making decisions, developing policies or delivering services in the public sector. These activities take place in networks of interdependent actors guided by diverging and sometimes conflicting perceptions and strategies. As a result these networks are dominated by cognitive, strategic and institutional complexities. Dealing with these complexities requires sophisticated forms of coordination: network governance. This book presents the most recent theoretical and empirical insights into governance networks. It provides a conceptual framework and analytical tools to study the complexities involved in handling wicked problems in governance networks in the public sector. The book also discusses strategies and management recommendations for governments, business and third sector organisations operating in and governing networks. *Governance Networks in the Public Sector* is an essential text for advanced students of public management, public administration, public policy and political science, and for public managers and policymakers.

VISIBLE LEARNING

A SYNTHESIS OF OVER 800 META-ANALYSES RELATING TO ACHIEVEMENT

Routledge *This unique and ground-breaking book is the result of 15 years research and synthesises over 800 meta-analyses on the influences on achievement in school-aged students. It builds a story about the power of teachers, feedback, and a model of learning and understanding. The research involves many millions of students and represents the largest ever evidence based research into what actually works in schools to improve learning. Areas covered include the influence of the student, home, school, curricula, teacher, and teaching strategies. A model of teaching and learning is developed based on the notion of visible teaching and visible learning. A major message is that what works best for students is similar to what works best for teachers - an attention to setting challenging learning intentions, being clear about what success means, and an attention to learning strategies for developing conceptual understanding about what teachers and students know and understand. Although the current evidence based fad has turned into a debate about test scores, this book is about using evidence to build and defend a model of teaching and learning. A major contribution is a fascinating benchmark/dashboard for comparing many innovations in teaching and schools.*

THE NEW INSTITUTIONALISM IN ORGANIZATIONAL ANALYSIS

University of Chicago Press *Long a fruitful area of scrutiny for students of organizations, the study of institutions is undergoing a renaissance in contemporary social science. This volume offers, for the first time, both often-cited foundation works and the latest writings of scholars associated with the "institutional" approach to organization analysis. In their introduction, the editors discuss points of convergence and disagreement with institutionally oriented research in economics and political science, and locate the "institutional" approach in relation to major developments in contemporary sociological theory. Several chapters consolidate the theoretical advances of the past decade, identify and clarify the paradigm's key ambiguities, and push the theoretical agenda in novel ways by developing sophisticated arguments about the linkage between institutional patterns and forms of social structure. The empirical studies that follow—involving such diverse topics as mental health clinics, art museums, large corporations, civil-service systems, and national politics—illustrate the explanatory power of institutional theory in the analysis of organizational change. Required reading for anyone interested in the sociology of organizations, the volume should appeal to scholars concerned with culture, political institutions, and social change.*

APPLIED CONCEPT MAPPING

CAPTURING, ANALYZING, AND ORGANIZING KNOWLEDGE

CRC Press *The expanding application of Concept Mapping includes its role in knowledge elicitation, institutional memory preservation, and ideation. With the advent of the CmapTools knowledge modeling software kit, Concept Mapping is being applied with increased frequency and success to address a variety of problems in the workplace. Supported by business application case studies, Applied*

Concept Mapping: Capturing, Analyzing, and Organizing Knowledge offers an accessible introduction to the theory, methods, and application of Concept Mapping in business and government. The case studies illustrate applications across a range of industries—including engineering, product development, defense, and healthcare. The authors provide access to a free download of CmapTools, courtesy of the Institute for Human and Machine Cognition, to enable readers to create and share their own Concept Maps. Offering examples from the United States, Canada, Australia, Spain, Brazil, Scotland, and The Netherlands, they highlight a global perspective of this dynamic tool. The text is organized into three sections: *Practitioners' Views*—supplies narratives, guidance, and reviews of applications from career Concept Mappers *Recent Case Studies and Results*—presents in-depth examinations of specific applications and their results *Pushing the Boundaries*—explores what's possible and where the boundary conditions lie *Applied Concept Mapping* facilitates the fundamental understanding needed to harness the power of Concept Mapping to develop viable solutions to a virtually unlimited number of real-world problems.

CODE OF FEDERAL REGULATIONS

DEVICE-BASED ARRHYTHMIA MONITORING, AN ISSUE OF CARDIAC ELECTROPHYSIOLOGY CLINICS

Elsevier Health Sciences *This issue of Cardiac Electrophysiology Clinics, Guest Edited by Drs. Suneet Mittal and David Slotwiner,, is dedicated to Device-Based Arrhythmia Monitoring. This is one of four issues selected each year by the series Consulting Editors, Ranjan K. Thakur and Andrea Natale. Topics include, but are not limited to: Implantable loop recorders, Permanent pacemakers and implantable cardioverter defibrillators, Heart failure monitoring, Remote programming and cybersecurity concerns, Models for remote monitoring, Data management and integration with EMR systems, Screening for atrial fibrillation and The role of artificial intelligence in arrhythmia monitoring.*

BROWNIAN MOTION

Cambridge University Press *This eagerly awaited textbook covers everything the graduate student in probability wants to know about Brownian motion, as well as the latest research in the area. Starting with the construction of Brownian motion, the book then proceeds to sample path properties like continuity and nowhere differentiability. Notions of fractal dimension are introduced early and are used throughout the book to describe fine properties of Brownian paths. The relation of Brownian motion and random walk is explored from several viewpoints, including a development of the theory of Brownian local times from random walk embeddings. Stochastic integration is introduced as a tool and an accessible treatment of the potential theory of Brownian motion clears the path for an extensive treatment of intersections of Brownian paths. An investigation of exceptional points on the Brownian path and an appendix on SLE processes, by Oded Schramm and Wendelin Werner, lead directly to recent research themes.*

REGRESSION MODELING STRATEGIES

WITH APPLICATIONS TO LINEAR MODELS, LOGISTIC REGRESSION, AND SURVIVAL ANALYSIS

Springer Science & Business Media *Many texts are excellent sources of knowledge about individual statistical tools, but the art of data analysis is about choosing and using multiple tools. Instead of presenting isolated techniques, this text emphasizes problem solving strategies that address the many issues arising when developing multivariable models using real data and not standard textbook examples. It includes imputation methods for dealing with missing data effectively, methods for dealing with nonlinear relationships and for making the estimation of transformations a formal part of the modeling process, methods for dealing with "too many variables to analyze and not enough observations," and powerful model validation techniques based on the bootstrap. This text realistically deals with model uncertainty and its effects on inference to achieve "safe data mining".*

REFLECTIVE PRACTICE IN NURSING

Learning Matters *Would you like to develop some strategies to manage knowledge deficits, near misses and mistakes in practice? Are you looking to improve your reflective writing for your portfolio, essays or assignments? Reflective practice enables us to make sense of, and learn from, the experiences we have each day and if nurtured properly can provide skills that will you come to rely on throughout your nursing career. Using clear language and insightful examples, scenarios and case studies the third edition of this popular and bestselling book shows you what reflection is, why it is so important and how you can use it to improve your nursing practice. Key features:*

- Clear and straightforward introduction to reflection directly written for nursing students and new nurses
- Full of activities designed to build confidence when using reflective practice
- Each chapter is linked to relevant NMC Standards and Essential Skills Clusters

PRINCIPLES OF DATA WRANGLING

PRACTICAL TECHNIQUES FOR DATA PREPARATION

"O'Reilly Media, Inc." A key task that any aspiring data-driven organization needs to learn is data wrangling, the process of converting raw data into something truly useful. This practical guide provides business analysts with an overview of various data wrangling techniques and tools, and puts the practice of data wrangling into context by asking, "What are you trying to do and why?" Wrangling data consumes roughly 50-80% of an analyst's time before any kind of analysis is possible. Written by key executives at Trifacta, this book walks you through the wrangling process by exploring several factors--time, granularity, scope, and structure--that you need to consider as you begin to work with data. You'll learn a shared language and a comprehensive understanding of data wrangling, with an emphasis on recent agile analytic processes used by many of today's data-driven organizations. Appreciate the importance--and the satisfaction--of wrangling data the right way. Understand what kind of data is available Choose which data to use and at what level of detail Meaningfully combine multiple sources of data Decide how to distill the results to a size and shape that can drive downstream analysis

PROBLEMS AND SOLUTIONS FOR COMPLEX ANALYSIS

Springer Science & Business Media All the exercises plus their solutions for Serge Lang's fourth edition of "Complex Analysis," ISBN 0-387-98592-1. The problems in the first 8 chapters are suitable for an introductory course at undergraduate level and cover power series, Cauchy's theorem, Laurent series, singularities and meromorphic functions, the calculus of residues, conformal mappings, and harmonic functions. The material in the remaining 8 chapters is more advanced, with problems on Schwartz reflection, analytic continuation, Jensen's formula, the Phragmen-Lindelof theorem, entire functions, Weierstrass products and meromorphic functions, the Gamma function and Zeta function. Also beneficial for anyone interested in learning complex analysis.