

Uva Electrical Engineering Handbook

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Department of Computer Science Undergraduate Handbook
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Standard-setting, groundbreaking, authoritative, comprehensive—these often overused words perfectly describe The Circuits and Filters Handbook, Third Edition. This standard-setting resource has documented the momentous changes that have occurred in the field of electrical engineering, providing the most comprehensive coverage available. More than 150 contributing experts offer in-depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first—and most likely the only—tool you select to help you with problem solving. In its third edition, this groundbreaking bestseller surveys accomplishments in the field, providing researchers and designers with the comprehensive detail they need to optimize research and design. All five volumes include valuable information on the emerging fields of circuits and filters, both analog and digital. Coverage includes key mathematical formulas, concepts, definitions, and derivatives that must be mastered to perform cutting-edge research and design. The handbook avoids extensively detailed theory and instead concentrates on professional applications, with numerous examples provided throughout. The set includes more than 2500 illustrations and hundreds of references. Available as a comprehensive five-volume set, each of the subject-specific volumes can also be purchased separately.

Essential Radio Astronomy is the only textbook on the subject specifically designed for a one-semester introductory course for advanced undergraduates or graduate students in astronomy and astrophysics. It starts from first principles in order to fill gaps in students' backgrounds, make teaching easier for professors who are not expert radio astronomers, and provide a useful reference to the essential equations used by practitioners. This unique textbook reflects the fact that students of multiwavelength astronomy typically can afford to spend only one semester studying the observational techniques particular to each wavelength band. Essential Radio Astronomy presents only the most crucial concepts—succinctly and accessibly. It covers the general principles behind radio telescopes, receivers, and digital backends without getting bogged down in engineering details. Emphasizing the physical processes in radio sources, the book’s approach is shaped by the view that radio astrophysics owes more to thermodynamics than electromagnetism. Proven in the classroom and generously illustrated throughout, Essential Radio Astronomy is an invaluable resource for students and researchers alike. The only textbook specifically designed for a one-semester course in radio astronomy Starts from first principles Makes teaching easier for astronomy professors who are not expert radio astronomers Emphasizes the physical processes in radio sources Covers the principles behind radio telescopes and receivers Provides the essential equations and fundamental constants used by practitioners Supplementary website includes lecture notes, problem sets, exams, and links to interactive demonstrations An online illustration package is available to professors

An all-in-one practical guide on how to efficiently use chromatographic separation methods Based on a training course that teaches the theoretical as well as practical aspects of protein bioseparation to bioprocess professionals, this fully updated and revised new edition offers comprehensive coverage of continuous chromatography and provides readers with many relevant examples from the biopharmaceutical industry. Divided into two large parts, Protein Chromatography: Process Development and Scale-Up, Second Edition presents all the necessary knowledge for effective process development in chromatographic bioseparation, both on small and large scale. The first part introduces chromatographic theory, including process design principles, to enable the reader to rationalize the set-up of a bioseparation process. The second part illustrates by way of case studies and sample protocols how the theory learned in the first part may be applied to real-life problems. Chapters look at: Downstream Processing of Biotechnology Products; Chromatography Media; Laboratory and Process Columns and Equipment; Adsorption Equilibrium; Rate Processes; and Dynamics of Chromatography Columns. The book closes with chapters on: Effects of Dispersion and Rate Processes on Column Performance; Gradient Elution Chromatography; and Chromatographic Column Design and Optimization. •Presents the most pertinent examples from the biopharmaceutical industry, including monoclonal antibodies •Provides an overview of the field along with design tools and examples illustrating the advantages of continuous processing in biopharmaceutical productions •Focuses on process development and large-scale bioseparation tasks, making it an ideal guide for the professional bioengineer in the biotech and pharma industries •Offers field-tested information based on decades of training courses for biotech and chemical engineers in Europe and the U.S. Protein Chromatography: Process Development and Scale-Up, Second Edition will appeal to biotechnologists, analytical chemists, chromatographers, chemical engineers, pharmaceutical industry, biotechnological industry, and biochemists.

Written for social science students who will be working with or conducting research, Mathematics for Social Scientists offers a non-intimidating approach to learning or reviewing math skills essential in quantitative research methods. The text is designed to build students’ confidence by presenting material in a conversational tone and using a wealth of clear and applied examples. Author Jonathan Kropko argues that mastering these concepts will break students’ reliance on using basic models in statistical software, allowing them to engage with research data beyond simple software calculations.

In addition to creating the opportunity for collaboration, transformation, and innovation in the healthcare industry, technology plays an essential role in the development of human well-being and psychological growth. Handbook of Research on ICTs for Human-Centered Healthcare and Social Services is a comprehensive collection of relevant research on technology and its developments of ICTs in healthcare and social services. This book focuses on the emerging trends in the social and healthcare sectors such as social networks, security of ICTs, and advisory services, beneficial to researchers, scholars, students, and practitioners to further their interest in technological advancements.

Python Programming and Numerical Methods: A Guide for Engineers and Scientists introduces programming tools and numerical methods to engineering and science students, with the goal of helping the students to develop good computational problem-solving techniques through the use of numerical methods and the Python programming language. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level that allows students to quickly apply results in practical settings. Includes tips, warnings and "try this" features within each chapter to help the reader develop good programming practice Summaries at the end of each chapter allow for quick access to important information Includes code in jupyter notebook format that can be directly run online

The most important poetry reference for more than four decades—now fully updated for the twenty-first century Through three editions over more than four decades, The Princeton Encyclopedia of Poetry and Poetics has built an unrivaled reputation as the most comprehensive and authoritative reference for students, scholars, and poets on all aspects of its subject: history, movements, genres, prosody, rhetorical devices, critical terms, and more. Now this landmark work has been thoroughly revised and updated for the twenty-first century. Compiled by an entirely new team of editors, the fourth edition—the first new edition in almost twenty years—reflects recent changes in literary and cultural studies, providing up-to-date coverage and giving greater attention to the international aspects of poetry, all while preserving the best of the previous volumes. At well over a million words and more than 1,000 entries, the Encyclopedia has unparalleled breadth and depth. Entries range in length from brief paragraphs to major essays of 15,000 words, offering a more thorough treatment—including expert synthesis and indispensable bibliographies—than conventional handbooks or dictionaries. This is a book that no reader or writer of poetry will want to be without. Thoroughly revised and updated by a new editorial team for twenty-first-century students, scholars, and poets More than 250 new entries cover recent terms, movements, and related topics Broader international coverage includes articles on the poetics of more than 110 nations, regions, and languages Expanded coverage of poeties of the non-Western and developing worlds Updated bibliographies and cross-references New, easier-to-use page design Fully indexed for the first time

A graphical model is a statistical model that is represented by a graph. The factorization properties underlying graphical models facilitate tractable computation with multivariate distributions, making the models a valuable tool with a plethora of applications. Furthermore, directed graphical models allow intuitive causal interpretations and have become a cornerstone for causal inference. While there exist a number of excellent books on graphical models, the field has grown so much that individual authors can hardly cover its entire scope. Moreover, the field is interdisciplinary by nature. Through chapters by leading researchers from different areas, this handbook provides a broad and accessible overview of the state of the art. Key features:
* Contributions by leading researchers from a range of disciplines
* Structured in five parts, covering foundations, computational aspects, statistical inference, causal inference, and applications
* Balanced coverage of concepts, theory, methods, examples, and applications
* Chapters can be read mostly independently, while cross-references highlight connections The handbook is targeted at a wide audience, including graduate students, applied researchers, and experts in graphical models.

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