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into many diverse engineering fields. The time h

Written from an engineering perspective, this unique resource describes the practical application of wavelets to the solution of electromagnetic field problems and in signal analysis with an even-handed treatment of the pros and cons. A key feature of this book is that the wavelet concepts have been described from the filter theory point of view that is familiar to researchers with an electrical engineering background. The book shows you how to design novel algorithms that enable you to solve electrically, large electromagnetic field problems using modest computational resources. It also provides you with new ideas in the design and development of unique waveforms for reliable target identification and practical radar signal analysis. The book includes more than 500 equations, and covers a wide range of topics, from numerical methods to signal processing aspects.

Electromagnetics for Engineering Students starts with an introduction to vector analysis and progressive chapters provide readers with information about dielectric materials, electrostatic and magnetostatic fields, as well as wave propagation in different situations. Each chapter is supported by many illustrative examples and solved problems which serve to explain the principles of the topics and enhance the knowledge of students. In addition to the coverage of classical topics in electromagnetics, the book explains advanced concepts and topics such as the application of multi-pole expansion for scalar and vector potentials, an in depth treatment for the topic of the scalar potential including the boundary-value problems in cylindrical and spherical coordinates systems, metamaterials, artificial magnetic conductors and the concept of negative refractive index. Key features of this textbook include:

- detailed and easy-to follow

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presentation of mathematical analyses and problems • a total of 681 problems (162 illustrative examples, 88 solved problems, and 431 end of chapter problems) • an appendix of mathematical formulae and functions Electromagnetics for Engineering Students is an ideal textbook for first and second year engineering students who are learning about electromagnetism and related mathematical theorems.

To move from empirical-based physics to the theoretical abstractness required for advanced physics requires a paradigmatic shift in logic that can challenge even the brightest mind. Grasping the play of phenomena as they are described in introductory compendiums does not necessarily create a foundation that allows for the building of a bridge to the higher levels of theoretical physics. In the first edition of Advanced University Physics, respected physicists Stuart Palmer and Mircea Rogalski built that bridge, and then guided readers across it. Serving as a supplement to the standard advanced physics syllabus, their work provided a succinct review of course material, while encouraging the development of a more cohesive understanding of theoretical physics. Now, after incorporating suggestions from many readers and colleagues, the two authors have revised and updated their original work to produce a second, even more poignant, edition. Succinct, cohesive, and comprehensive, Advanced University Physics, Second Edition brings individuals schooled in the rudiments of physics to theoretical fluency. In a progression of concise chapters, the text clarifies concepts from Newtonian Laws to nuclear dynamics, while introducing and building upon the theoretical logic required to operate in the world of contemporary physics. Some chapters have been combined to improve relational clarity, and new material has been added to cover the evolving concepts that have emerged over the last decade in this highly fluid field. The

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authors have also added a substantial amount of relevant problems and at least one pertinent example for every chapter. Those already steeped in physics will continue to find this work to be a useful reference, as the book's 47 chapters provide the opportunity to become refreshed and updated on a great number of easily identified topics.

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In chapters culled from popular and critically acclaimed Electromagnetic Compatibility Handbook, Electromagnetic Shielding provides a tightly focused, convenient, and affordable reference for those interested primarily in this subset of topics. Author Kenneth L. Kaiser demystifies shielding and explains the source and limitations of the approximations, guidelines, models, and rules-of-thumb used in this field. The material is presented in a unique question-and-answer format that gets straight to the heart of each topic. The book includes numerous examples and uses Mathcad to generate all of the figures and many solutions to equations. In many cases, the entire Mathcad program is provided.

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understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

The building blocks of MEMS design through closed-form solutions Microelectromechanical Systems, or MEMS, is the technology of very small systems; it is found in everything from inkjet printers and cars to cell phones, digital cameras, and medical equipment. This book describes the principles of MEMS via a unified approach and closed-form solutions to micromechanical problems, which have been recently developed by the author and go beyond what is available in other texts. The closed-form solutions allow the reader to easily understand the linear and nonlinear behaviors of MEMS and their design applications. Beginning with an overview of MEMS, the opening chapter also presents dimensional analysis that provides basic dimensionless parameters existing in large- and small-scale worlds. The book then explains microfabrication, which presents knowledge on the common fabrication process to design realistic MEMS. From there, coverage includes: Statics/force and moment

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acting on mechanical structures in static equilibrium Static behaviors of structures consisting of mechanical elements Dynamic responses of the mechanical structures by the solving of linear as well as nonlinear governing equations Fluid flow in MEMS and the evaluation of damping force acting on the moving structures Basic equations of electromagnetics that govern the electrical behavior of MEMS Combining the MEMS building blocks to form actuators and sensors for a specific purpose All chapters from first to last use a unified approach in which equations in previous chapters are used in the derivations of closed-form solutions in later chapters. This helps readers to easily understand the problems to be solved and the derived solutions. In addition, theoretical models for the elements and systems in the later chapters are provided, and solutions for the static and dynamic responses are obtained in closed-forms. This book is designed for senior or graduate students in electrical and mechanical engineering, researchers in MEMS, and engineers from industry. It is ideal for radiofrequency/electronics/sensor specialists who, for design purposes, would like to forego numerical nonlinear mechanical simulations. The closed-form solution approach will also appeal to device designers interested in performing large-scale parametric analysis.

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