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After years of searching and study, at a certain moment I realized and I remembered the little "Know-How" most Ham's have about propagation. Why should I not share my to-day knowledge with my hobby friends? "Why don't you write a book about propagation?". Yes, why not? But there are so many books about propagation. Why one more book and does I have something else or something new to tell about this subject? My answer was always: "If I ever write a book than It must be one completely different in concept than the existing ones. It must not only repeat what was found in the various exiting books, explaining the different ionospheric properties and propagation possibilities and phenomena. It must at least also answer the many questions I often did put. Questions as: why, how, where and when, to the reasons or causes or origins of all these different behaviors or rather equally repeating never-ending propagation variations. From experience I know, illustrations of all kinds, (sketches, graphs, diagrams), are explaining much better than plain text can do. Also, I realized that animated graphs and diagrams can even better express certain behaviors and phenomena. When you can follow in an animated way the chronological changes, you get a picture in an extra dimension. I started compiling animations and presenting them in a Presentation WIZARD. These animations and other extra study documents are downloadable. Each illustration in the book is in color to express a clear picture. Joe Carr has provided radio amateurs and short-wave listeners with the definitive design guide for sending and receiving radio signals with Antenna Toolkit 2nd edition. Together with the powerful suite of CD software, the reader will have a complete solution for constructing or using an antenna - bar the actual hardware! The software provides a simple Windows-based aid to carrying out the design calculations at the heart of successful antenna design. All the user needs to do is select the antenna type and set the frequency - a much more fun and less error prone method than using a conventional calculator to solve formulae. The new edition has been revised to include further cases of propagation, additional antennas and also two new chapters - Small Loop Antennas (a topic of considerable interest, which has been the subject of much recent debate in the amateur radio press); and Yagi Beam Antennas (widely used at HF and VHF). The CD software has also been updated. Joe Carr's expertise in the area of antenna design is legendary. Antenna designers, whether hobbyist or technician, can be assured they need look no further than Antenna Toolkit for the complete guide to understanding the practicalities of using and designing antennas today. A complete solution for antenna design in one package. Includes free CD-ROM with state of the art software for all design calculations. The definitive guide to antenna design for radio amateurs and short-wave listeners. CD-ROM contains the complete book in electronic form, using Adobe Acrobat Reader. A presentation of general relativity as a scheme for describing the gravitational field and the equations it obeys. Starting from physical motivations, curved co-ordinates are introduced, and then the notion of an affine connection field is added. At a later step, the metric field is added. This handbook contains a wealth of

information, including instructions for building a variety of antennas. The Truth Table lists the actual dB gain of 10 popular antennas. This text attempts to give the reader an understanding of the key developments in moment methods and the early history of this development. It provides over 45 key papers in the field, many of which are from non-IEEE sources. A seminal reference to electrically small antennas for today's wireless and Wi-Fi world This book is dedicated to the challenges posed by electrically small antennas and their solutions. Electrically small antennas have characteristics that limit performance: low radiation resistance, high reactance, low efficiency, narrow bandwidth, and increased loss in the matching network. Most of these limitations are shared by two other classes of antennas: superdirective and superconducting antennas. All three classes of antennas are thoroughly treated in three interrelated parts: \* Part One, Electrically Small Antennas, begins with a discussion of the fundamental limitations of bandwidth and matching, then provides detailed design information on loaded whips and dipoles, ferrite loops, patches with unusual substrates, and dielectric resonator antennas. In addition to exploring designs that work, the author sets forth antenna designs that are based on good physics yet are poor performers, as well as designs with both poor underlying physics and poor performance. \* Part Two, Superdirective Antennas, sets forth basic capabilities and limitations of superdirective antennas, both apertures and arrays, and investigates bandwidth, efficiency, and tolerances. The author explores the magnification of intrinsic matching circuit loss due to a large mismatch and evaluates the recent and promising non-Foster matching circuits. \* Part Three, Superconducting Antennas, reviews superconductivity concepts and new principles for dipole, loop, and patch antennas. The author concludes with a discussion of superconducting delay lines for wideband phased array steering. Throughout the book, the author provides readers with a historical perspective, setting forth what has been investigated, what works, and what does not. Each part has its own author index and a list of references to help readers continue their explorations of particular topics. With the explosive demand for wireless and Wi-Fi, this seminal reference is essential reading for all antenna professionals and is recommended as a graduate-level course book. This cynical and immensely entertaining book describes the scanner world, the people in it, the equipment they use, and how they acquire and tune in to the "secret" frequencies. Basic Radio reveals the key building blocks of radio: receivers; transmitters; antennas; propagation and their applications to telecommunications; radionavigation; and radiolocation. This book includes simple, build-it-yourself projects to turn theory into practice--helping reinforce key subject matter. This handbook has everything you need to design your own complete antenna system. This 23rd edition describes hundreds of antenna designs - wire, vertical, portable and mobile, and new high-performance VHF/UHF Yagi designs Grob's Basic Electronics, Tenth Edition, is written for the beginning student pursuing a technical degree in Electronics Technology. In covering the fundamentals of electricity and electronics, this text focuses on essential topics for the technician, and the all-important development of testing and troubleshooting skills. This highly practical approach combines clear, carefully-laid-out explanations of key topics with good, worked-out examples and problems to solve. Review problems that follow each section reinforce the material just completed, making this a very student-friendly text. It is a thoroughly accessible introduction to basic DC and AC circuits and electronic devices. This tenth edition of this longtime best-selling text has been refined, updated and made more student friendly. The focus on absolutely essential knowledge for technicians, and focus on real-world applications of these basic concepts makes it ideal for today's technology students. So many wire antenna designs have proven to be first class performers! Here are two volumes devoted to wire antennas, from the simple to the complex. Includes articles on dipoles, loops, rhombics, wire beams and receive antennas--and some time-proven classics! An ideal book for Field Day planners or the next wire antenna project at your home station. A First Course in Complex Analysis was developed from lecture notes for a one-semester undergraduate course taught by the authors. For many students, complex analysis is the first rigorous analysis (if not

mathematics) class they take, and these notes reflect this. The authors try to rely on as few concepts from real analysis as possible. In particular, series and sequences are treated from scratch. Offering you the performance and time-saving features of software costing many times more, this new software package serves as fast and accurate design & simulation tool for your projects involving microwave circuits, components, and antennas. It includes an easy-to-use circuit solver and schematic capture, component library, and an optimizer that automates the design of microwave devices and antennas. As a product from the well-know WIPL-D family, it inherits a full-wave 3D EM (electromagnetic) solver. Adjusting any antenna, home-made or commercial, making sure that it's working with maximum efficiency. Over the last two decades, computerized antenna modeling has advanced greatly. Modeling, a powerful tool in Amateur Radio, can help you to design antennas and optimize their performances. Advanced Antenna Modeling is in every respect the guide to using modeling software for designing, optimizing and evaluating antennas. It provides a detailed explanation to use EZNEC, the most popular antenna modeling program used by radio amateurs today, and thoroughly how to optimize the model with the AutoEZ application in conjunction with EZNEC. With Advanced Antenna Modeling, you can evaluate and adjust pre-designed models and create your own models. Step by step you are guided and explained to become familiarized to important functions and procedures along the way. As you progress, you'll discover the strength of modeling with the extra use of various AutoEZ features. View the book concept with the article "Using AutoEZ with Antenna Modeling" It's available on the website [www.on5au.be](http://www.on5au.be). Dan Maguire, AC6LA -- Both the scope and depth of material in Marcel's Advanced Antenna Modeling book are truly amazing. If you enjoy modeling, as I do, reading this book will spark many thoughts of "That's very clever!" and "I had no idea that was possible!" John Devoldere, ON4UN -- I highly recommend Advanced Antenna Modeling to get experience with all the clever features AutoEZ offers. It is amazing to discover how Marcel manages to reposition a rather complex antenna structure. He is a master to explain in a clear way many other AutoEZ specific tricks. The Author, ON5AU -- From the start as radio ham, I was always interested in the know-how of antennas and most of my antennas were and still are home brew, such as cubical quads, Yagis, delta loops, multiband dipoles, ground plains, etc. Incorporating substantial developments from the last thirty years into one resource, Asymptotics and Borel Summability provides a self-contained introduction to asymptotic analysis with special emphasis on topics not covered in traditional asymptotics books. The author explains basic ideas, concepts, and methods of generalized Borel summability, transseries, and exponential asymptotics. He provides complete mathematical rigor while supplementing it with heuristic material and examples, so that some proofs may be omitted by applications-oriented readers. To give a sense of how new methods are used in a systematic way, the book analyzes in detail general nonlinear ordinary differential equations (ODEs) near a generic irregular singular point. It enables readers to master basic techniques, supplying a firm foundation for further study at more advanced levels. The book also examines difference equations, partial differential equations (PDEs), and other types of problems. Chronicling the progress made in recent decades, this book shows how Borel summability can recover exact solutions from formal expansions, analyze singular behavior, and vastly improve accuracy in asymptotic approximations. The premiere volume includes articles on a multiband portable, quads and loops, baluns, the Smith Chart, and more. Annotation This practical, new book provides a much wider choice of analytical solutions to problems faced by antenna design engineers and researchers working in electromagnetic modeling. Based on leading-edge method-of-moments procedures, the book presents new theories and techniques that help professionals optimize computer performance in numerical analysis of composite metallic and dielectric structures in the complex frequency domain. For the first time, comparisons and new combinations of techniques bring the elements of flexibility, ease of implementation, accuracy, and efficiency into clear focus for all practitioners. In 1915 and 1916 Emmy Noether was asked by Felix Klein and David Hilbert to assist them

in understanding issues involved in any attempt to formulate a general theory of relativity, in particular the new ideas of Einstein. She was consulted particularly over the difficult issue of the form a law of conservation of energy could take in the new theory, and she succeeded brilliantly, finding two deep theorems. But between 1916 and 1950, the theorem was poorly understood and Noether's name disappeared almost entirely. People like Klein and Einstein did little more than mention her name in the various popular or historical accounts they wrote. Worse, earlier attempts which had been eclipsed by Noether's achievements were remembered, and sometimes figure in quick historical accounts of the time. This book carries a translation of Noether's original paper into English, and then describes the strange history of its reception and the responses to her work. Ultimately the theorems became decisive in a shift from basing fundamental physics on conservation laws to basing it on symmetries, or at the very least, in thoroughly explaining the connection between these two families of ideas. The real significance of this book is that it shows very clearly how long it took before mathematicians and physicists began to recognize the seminal importance of Noether's results. This book is thoroughly researched and provides careful documentation of the textbook literature. Kosmann-Schwarzbach has thus thrown considerable light on this slow dance in which the mathematical tools necessary to study symmetry properties and conservation laws were apparently provided long before the orchestra arrives and the party begins. The use of MATLAB is ubiquitous in the scientific and engineering communities today, and justifiably so. Simple programming, rich graphic facilities, built-in functions, and extensive toolboxes offer users the power and flexibility they need to solve the complex analytical problems inherent in modern technologies. The ability to use MATLAB effectively has become practically a prerequisite to success for engineering professionals. Like its best-selling predecessor, *Electronics and Circuit Analysis Using MATLAB, Second Edition* helps build that proficiency. It provides an easy, practical introduction to MATLAB and clearly demonstrates its use in solving a wide range of electronics and circuit analysis problems. This edition reflects recent MATLAB enhancements, includes new material, and provides even more examples and exercises. New in the Second Edition: Thorough revisions to the first three chapters that incorporate additional MATLAB functions and bring the material up to date with recent changes to MATLAB A new chapter on electronic data analysis Many more exercises and solved examples New sections added to the chapters on two-port networks, Fourier analysis, and semiconductor physics MATLAB m-files available for download Whether you are a student or professional engineer or technician, *Electronics and Circuit Analysis Using MATLAB, Second Edition* will serve you well. It offers not only an outstanding introduction to MATLAB, but also forms a guide to using MATLAB for your specific purposes: to explore the characteristics of semiconductor devices and to design and analyze electrical and electronic circuits and systems. "Explains what makes an effective HF antenna, how to build one and how to measure its performance. The book deals with real locations, such as small gardens, apartment blocks, lofts, etc. and how to obtain optimum performance within the constraints of your location"--Publisher's description. Ham Radio antennas. Antenna Modeling Made Easy and Optimized By using variables, equations, and formulas Over the last three decades, computerized antenna modeling has advanced greatly. Modeling, a powerful tool in Amateur Radio, can help you to design antennas and optimize their performances. Today, the EZNEC program is widely used worldwide. A lot was, and still is written about this program in many books, magazines, and on the internet. Example EZNEC models are widely and easily found and available. However, EZNEC lacks one option: optimizing the model. To allow optimizing, you need the use of variables and formulas. This lack is solved by the author of the AutoEZ application, Dan Maguire, AC6LA. Whenever you Google "AutoEZ models" or "Optimizing Antenna models," you will be disappointed about the results. Nearly the only source about optimizing an antenna is found at the website of Dan Maguire and my website on5au.be, and my book publications: "Advanced Antenna Modeling" and "Practical Antenna Models - Volume 1". This new "Practical Antenna Models

-Volume 2" handles mainly, for the most part, vertically polarized antennas, such as groundplanes, verticals, 5/8 wavelength multiband, Tower (pylon) models, mutual coupling between antennas, J-pole, matching circuits, etc. Again, EZNEC and AutoEZ models are intensively used, step by step, fully explained, and many AutoEZ tricks revealed. Publisher Description Notes from Sidney Coleman's Physics 253a By Sidney Coleman THE DEFINITIVE ANTENNA REFERENCE--FULLY REVISED AND EXPANDED! Design and build your own antennas with the help of this unique guide. Updated and revised to provide clear answers to questions frequently asked by hobbyists and electronics technicians, Practical Antenna Handbook, Fifth Edition blends theoretical concepts with hands-on experience--requiring only high school mathematics Reorganized to flow logically from broad physical principles to specific antenna design and construction techniques, the book begins by covering the fundamentals. Then the half-wave dipole is discussed both as an excellent antenna in its own right and as a conceptual tool for predicting the performance of other designs. Transmission line impedance matching techniques--and a companion Smith chart tutorial--lead into "must have" accessories for tuning, monitoring, and troubleshooting antenna system performance. Other tools, such as antenna modeling software and network analyzer add-ons for PCs and Macs, are addressed, and concluding chapters offer fresh insights into support structures and installation techniques. NEW TOPICS COVERED INCLUDE: Characteristics of all-driven and parasitic arrays Beverages and small MF/HF receiving loops Top-loaded shunt-fed towers and other verticals Theory and design of Yagi beams Effect of real ground on propagation and antenna patterns, impedance, and efficiency Lightning protection and four kinds of ground systems Zoning and restrictive covenants COVERS A WIDE VARIETY OF ANTENNAS: Dipoles and inverted-Vs Quads, delta, and NVIS loops Wire arrays (bobtail curtain, half-square, rhombic) Verticals and shunt-fed towers Rotatable Yagi beams MF/HF receiving antennas (flag, pennant, K9AY, Beverage) Mobile and portable antennas VHF/UHF/microwave antennas And many more GO TO [WWW.MHPROFESSIONAL.COM/CARR5](http://WWW.MHPROFESSIONAL.COM/CARR5) FOR: \* Tables of worldwide geographic coordinates and antenna dimensions vs. frequency \* Supplier updates \* Author's blog \* Additional photographs and schematics \* Links to tutorials and specialized calculators An essential resource for learning about general relativity and much more, from four leading experts Important and useful to every student of relativity, this book is a unique collection of some 475 problems--with solutions--in the fields of special and general relativity, gravitation, relativistic astrophysics, and cosmology. The problems are expressed in broad physical terms to enhance their pertinence to readers with diverse backgrounds. In their solutions, the authors have attempted to convey a mode of approach to these kinds of problems, revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism. Although well suited for individual use, the volume may also be used with one of the modern textbooks in general relativity. If you need a book that relates the core principles of quantum mechanics to modern applications in engineering, physics, and nanotechnology, this is it. Students will appreciate the book's applied emphasis, which illustrates theoretical concepts with examples of nanostructured materials, optics, and semiconductor devices. The many worked examples and more than 160 homework problems help students to problem solve and to practise applications of theory. Without assuming a prior knowledge of high-level physics or classical mechanics, the text introduces Schrödinger's equation, operators, and approximation methods. Systems, including the hydrogen atom and crystalline materials, are analyzed in detail. More advanced subjects, such as density matrices, quantum optics, and quantum information, are also covered. Practical applications and algorithms for the computational analysis of simple structures make this an ideal introduction to quantum mechanics for students of engineering, physics, nanotechnology, and other disciplines. Additional resources available from [www.cambridge.org/9780521897839](http://www.cambridge.org/9780521897839).

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