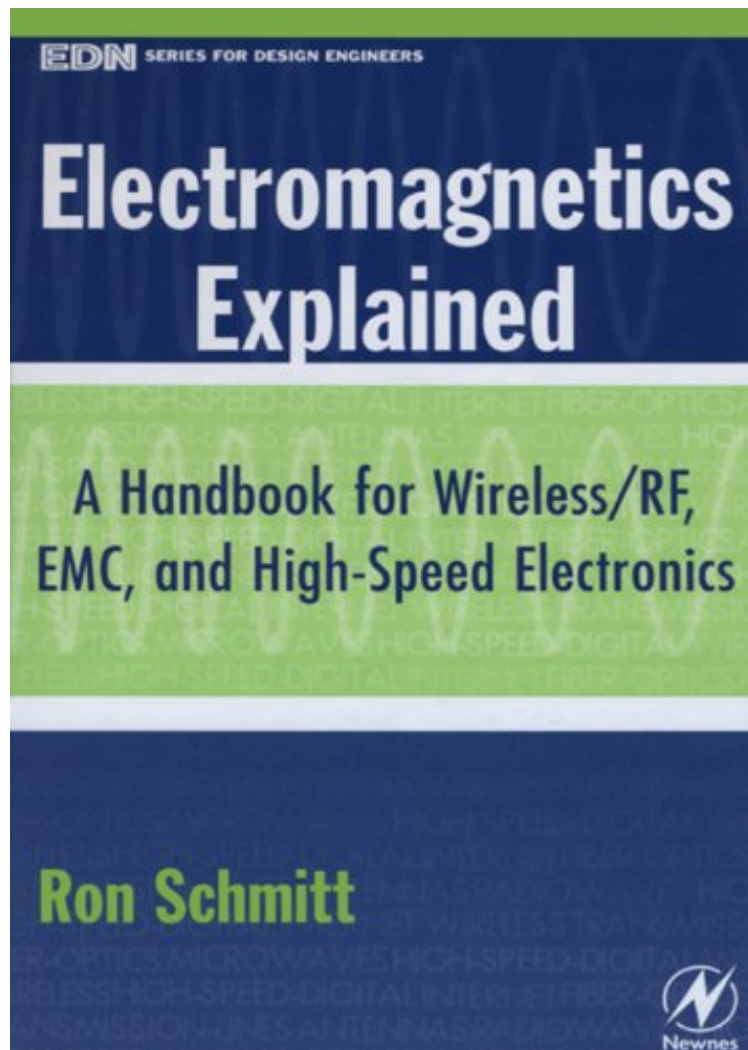


(Free) Electromagnetics Explained: A Handbook for Wireless/ RF, EMC, and High-Speed Electronics (EDN Series for Design Engineers)

Electromagnetics Explained: A Handbook for Wireless/ RF, EMC, and High-Speed Electronics (EDN Series for Design Engineers)

Von Ron Schmitt

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Von Ron Schmitt : Electromagnetics Explained: A Handbook for Wireless/ RF, EMC, and High-Speed Electronics (EDN Series for Design Engineers) before purchasing it in order to gage whether or not it would be worth my time, and all praised Electromagnetics Explained: A Handbook for Wireless/ RF, EMC, and High-Speed Electronics (EDN Series for Design Engineers):

Kundenrezensionen Hilfreichste Kundenrezensionen 0 von 0 Kunden fanden die folgende Rezension hilfreich. Ein umfassender Ueberblick Von Fini Jastrow Der Autor versucht in dem Buch die elektromagnetischen Zusammenhaenge,

wie man sie fuer RF und High Speed Circuits braucht, grundlegend zu erklaren. Dabei ist der Text unterhaltend und ohne viele Formeln aufgebaut. Der Ansatz ist sehr umfassend, wodurch viele Aspekte nur auf wenigen Zeilen angesprochen werden koennen. Damit es nicht nur bei einem Ueberblick bleiben muss, ist jedes Kapitel mit umfassenden Literaturlisten versehen. Einsteiger bekommen durch dieses Buch wirklich einen Ueberblick und koennen - von Formeln befreit - ein Gefuehl fuer die Thematiken bekommen. Ein 'Arbeitsbuch' ist es nicht; zum Loesen von wirklichen Probleme muss man auf (in den Literaturlisten angegebene) andere Buecher zurueckgreifen.

Kurzbeschreibung Based on familiar circuit theory and basic physics, this book serves as an invaluable reference for both analog and digital engineers alike. For those who work with analog RF, this book is a must-have resource. With computers and networking equipment of the 21st century running at such high frequencies, it is now crucial for digital designers to understand electromagnetic fields, radiation and transmission lines. This knowledge is necessary for maintaining signal integrity and achieving EMC compliance. Since many digital designers are lacking in analog design skills, let alone electromagnetics, an easy-to-read but informative book on electromagnetic topics should be considered a welcome addition to their professional libraries. Covers topics using conceptual explanations and over 150 lucid figures, in place of complex mathematics Demystifies antennas, waveguides, and transmission line phenomena Provides the foundation necessary to thoroughly understand signal integrity issues associated with high-speed digital design

Pressestimmen-The extensive background knowledge revealed in this book will help any EMC professional better understand, and better cope with, a diverse array of electromagnetic phenomena in modern computers-. - Howard Johnson, author of "High-Speed Digital Design: A Handbook of Black Magic" Many engineers face a large gap between the elegant simplicity of Maxwell's equations and the practical aspects of electromagnetic issues. Electromagnetics Explained by Ron Schmitt bridges that chasm, starting with basics and fundamentals and then smoothly moving to electromagnetic fields; radiated waves; nonideal components; transmission lines; shielding; s-parameters; antennas; electromagnetic-compatibility issues; and advanced topics, such as lenses, dish and antenna arrays, diffraction, and frequency dependence of materials. - EDN It uses equations when necessary and also uses a straightforward, nonacademic style to provide readers with an intuitive grasp of the issues. The numerous drawings illuminate the points of the text, such as field patterns, current flows, and component models, and add to the readability of this book. Each chapter also has extensive references. - EDN The author pulled together a bunch of concepts in electromagnetics, and related them to real world problems. We found it a very refreshing (and useful) approach. Easy to read with lots of good stuff. - Kimmel Gerke Associates' newsletter, EMI GURU Despite the hi-tech sound of the topics covered, this book contains very little math, and approaches its topics mostly from an intuitive point of view. The author obviously understands his subject very well, and considers his job to be making that subject as easy to understand as possible in a brief survey of the field. He does that job well.--Monitoring Times, March 2003 Electromagnetics Explained presents a good blend of concepts and applications without requiring the user to work through advanced math.--E-Streams, Vol.6, No.6 - June 2003 "The extensive background knowledge revealed in this book will help any EMC professional better understand, and better cope with, a diverse array of electromagnetic phenomena in modern computers." - Howard Johnson, author of "High-Speed Digital Design: A Handbook of Black Magic" Many engineers face a large gap between the elegant simplicity of Maxwell's equations and the practical aspects of electromagnetic issues. Electromagnetics Explained by Ron Schmitt bridges that chasm, starting with basics and fundamentals and then smoothly moving to electromagnetic fields; radiated waves; nonideal components; transmission lines; shielding; s-parameters; antennas; electromagnetic-compatibility issues; and advanced topics, such as lenses, dish and antenna arrays, diffraction, and frequency dependence of materials. - EDN It uses equations when necessary and also uses a straightforward, nonacademic style to provide readers with an intuitive grasp of the issues. The numerous drawings illuminate the points of the text, such as field patterns, current flows, and component models, and add to the readability of this book. Each chapter also has extensive references. - EDN The author pulled together a bunch of concepts in electromagnetics, and related them to real world problems. We found it a very refreshing (and useful) approach. Easy to read with lots of good stuff. - Kimmel Gerke Associates' newsletter, EMI GURU Despite the hi-tech sound of the topics covered, this book contains very little math, and approaches its topics mostly from an intuitive point of view. The author obviously understands his subject very well, and considers his job to be making that subject as easy to understand as possible in a brief survey of the field. He does that job well.--Monitoring Times, March 2003 Electromagnetics Explained presents a good blend of concepts and applications without requiring the user to work through advanced math.--E-Streams, Vol.6, No.6 - June 2003

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