

# Bookmark File Architectural Electromagnetic Shielding Handbook A Design And Specification Guide Pdf For Free

**Architectural Electromagnetic Shielding Handbook** **A handbook on electromagnetic shielding materials and performance** **Electromagnetic Shielding Handbook for Wired and Wireless Emc Applications** **A Handbook on Electromagnetic Shielding Materials and Performance; 2nd Ed** **Handbook Series on Electromagnetic Shielding Materials and Performance** **A Handbook on Electromagnetic Shielding Materials and Performance** *Electromagnetic Shielding* **Electromagnetic Shielding A Handbook on Electromagnetic Shielding Materials and Performance** **The New Cancer Sourcebook** *The Technician's EMI Handbook* **Electromagnetic Compatibility Handbook** *Electromagnetic Shielding* *Electromagnetic Shielding* **Advanced Materials and Design for Electromagnetic Interference Shielding** *A Handbook Series on Electromagnetic Interference and Compatibility* **RFI-EMI Shielding Materials** **Cable Shielding for Electromagnetic Compatibility** **Electromagnetic Compatibility Handbook** **Electromagnetic Compatibility in Medical Equipment** **Handbook of Aerospace Electromagnetic Compatibility** *Handbook of Electromagnetic Materials* *The Electrical Engineering Handbook, Second Edition* *Electromagnetics Explained* *Measurement, Instrumentation, and Sensors Handbook* **Electrical Safety Handbook 3E** *Laboratory Design Handbook* *Grounds for Grounding* *Handbook of Aerospace Electromagnetic Compatibility* **Electromagnetic Compatibility for Space Systems Design** *The Shielded Enclosure Handbook* **Radio-Frequency and ELF Electromagnetic Energies** **Handbook of Superconductivity** **Electromagnetic Compatibility Engineering** **The Electronics Handbook** **Airframe and Powerplant Mechanics** **Powerplant Handbook** *Handbook of Electromagnetic Compatibility* *Edn Designers Guide to Electromagnetic Compatibility* **The Electrical Engineering Handbook - Six Volume Set** **EMP - Protect Family, Homes and Community**

In 1996, enforcement of the mandatory European Union EMI/EMC (electromagnetic interference and compatibility) began. Before that time, many designers were just beginning to worry about "EMI problems". Now, 8 years later, the same old EMI problems are still with us, and some new ones have emerged as well. Anyone selling components or equipment of any sort in Europe and therefore the world for most globally based companies requires compliance with the EMC directive. There is no alternative. The information in this book enables faster, cheaper compliance. With electromagnetic compliance (EMC) now a major factor in the design of all electronic products, it is crucial to understand how electromagnetic interference (EMI) shielding products are used in various industries. Focusing on the practicalities of this area, *Advanced Materials and Design for Electromagnetic Interference Shielding* comprehensively introduces the design guidelines, materials selection, characterization methodology, manufacturing technology, and future potential of EMI shielding. After an overview of EMI shielding theory and product design guidelines, the book extensively reviews the characterization methodology of EMI materials. Subsequent chapters focus on particular EMI shielding materials and component designs, including enclosures, metal-formed gaskets, conductive elastomer and flexible graphite components, conductive foam and ventilation structures, board-level shielding materials, composite materials and hybrid structures, absorber materials, grounding and cable-level shielding materials, and aerospace and nuclear shielding materials. The last chapter presents a perspective on future trends in EMI shielding materials and design. Offering detailed coverage on many important topics, this indispensable book illustrates the efficiency and reliability of a range

of materials and design solutions for EMI shielding. EMP - Protect Family, Homes and Community provides a unique perspective on EMP protection. It discusses how to EMP protect homes, commercial and industrial buildings from family size to villages and towns. It presents an overview of how to shield, bond and ground buildings and how to surge suppress and filter cables. It includes a novel perspective on how to pay for all of this, even without government subsidies, rebates or tax credits. EMP protected solar and battery backup power ensures a 24/7 supply of electricity both before and after an EMP event. With EMP protection, lifestyle or the quality of living, increases from barely existing (as projected for the best situation in most scenarios) to thriving in a post-EMP situation for prepared communities, with further improvements and little job loss when these protections are extended to the town or county level. Chapter 2 presents a new and creative approach to "A Proposed National Plan for EMP Protection in two phases. Phase 1, a two year program, develops a few experimental EMP protected villages located in the North and South USA and coastal and inland. They become tailorable templates for high awareness, videos, seminars, webinars and training. Based on a wealth of analytical and pragmatic information learned from Phase 1, Phase 2 is fulfillment over an eight year span at many of USA counties. In addition to improved survival, other positive creations are the introduction of new products, services, open new markets and generate 7,000,000 new jobs over the next decade. The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal, and Radiation Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 96 existing chapters Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications. This is an accident-avoiding prescription for electricians, safety managers, and inspectors, and engineers dealing with electricity any voltage level. Presenting crucial protective safety strategies for industrial and commercial systems, the Handbook references all major safety codes (OSHA, NEC, NESC, and NFPA) where appropriate, creating a unique, one-stop compliance manual for any company's electrical safety training and reference needs. 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 In 1993, the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work. Now, this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electromagnetics,

electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data completes this comprehensive resource. Every major topic is thoroughly covered and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer, researchers, and students. A distinguished advisory board and contributors including many of the leading authors, professors, and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come. Co-published with the IEEE Press, this book is a practical, hands-on guide to EMC issues for medical device designers and installers. It addresses electromagnetic interference and covers the basics of EMC design, physics, and installation, minimizing theory and concentrating upon the correct way to ground and shield. Covering EMC from the inside out, the book provides the basics of electronics, discusses and evaluates problems and common causes, and explores effective remedial techniques at three levels: circuit, box, and interconnect. It contains appendices that provide important reference material such as constants and conversion factors. Tailored especially for the working health professional, Radio Frequency and ELF Electromagnetic Energies is a practical guide to understanding, evaluating, and controlling the human health effects of radio-frequency (RF) and extremely low frequency (ELF) electromagnetic fields. Providing a perfect blend of applied information and theory, you'll find all you need to know about radiation safety, from the basic physics to how to set up a safety program. This book brings you cutting-edge discussions of exposure limits, monitoring instrumentation, new measurements required by human exposure standards, induced currents and contact currents, and the latest data on biological effects. Praise for Noise Reduction Techniques IN electronic systems "Henry Ott has literally 'written the book' on the subject of EMC. . . . He not only knows the subject, but has the rare ability to communicate that knowledge to others." —EE Times Electromagnetic Compatibility Engineering is a completely revised, expanded, and updated version of Henry Ott's popular book Noise Reduction Techniques in Electronic Systems. It reflects the most recent developments in the field of electromagnetic compatibility (EMC) and noise reduction, and their practical applications to the design of analog and digital circuits in computer, home entertainment, medical, telecom, industrial process control, and automotive equipment, as well as military and aerospace systems. While maintaining and updating the core information—such as cabling, grounding, filtering, shielding, digital circuit grounding and layout, and ESD—that made the previous book such a wide success, this new book includes additional coverage of: Equipment/systems grounding Switching power supplies and variable-speed motor drives Digital circuit power distribution and decoupling PCB layout and stack-up Mixed-signal PCB layout RF and transient immunity Power line disturbances Precompliance EMC measurements New appendices on dipole antennae, the theory of partial inductance, and the ten most common EMC problems The concepts presented are applicable to analog and digital circuits operating from below audio frequencies to those in the GHz range. Throughout the book, an emphasis is placed on cost-effective EMC designs, with the amount and complexity of mathematics kept to the strictest minimum. Complemented with over 250 problems with answers, Electromagnetic Compatibility Engineering equips readers with the knowledge needed to design electronic equipment that is compatible with the electromagnetic environment and compliant with national and international EMC regulations. It is an essential resource for practicing engineers who face EMC and regulatory compliance issues and an ideal textbook for EE courses at the advanced undergraduate and graduate levels. Laboratory Design Handbook describes the process, motivation, constraints, challenges, opportunities, and specific design data related to the creation of a modern research laboratory. The information presented is based on a large pool of experience in the development of new and renovated laboratory buildings for universities, teaching hospitals, ph In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts,

models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. Circuits, Signals, and Speech and Image Processing presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. Sensors, Nanoscience, Biomedical Engineering, and Instruments provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Broadcasting and Optical Communication Technology explores communications, information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth 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 superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference, but also a pleasure to use. Some of these organizational features include: A comprehensive resource that explores electromagnetic compatibility (EMC) for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles. With contributions from an international panel of aerospace EMC experts, this important text deals with the testing of spacecraft components and subsystems, analysis of crosstalk and field coupling, aircraft communication systems, and much more. The text also includes information on lightning effects and testing, as well as guidance on design principles and techniques for lightning protection. The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems. Filled with the most up-to-date information, illustrative examples, descriptive figures, and helpful scenarios, Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source. This vital guide to electromagnetic compatibility: • Provides information on a range of topics including grounding, coupling, test procedures, standards, and requirements • Offers discussions on standards for aerospace applications • Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners, Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems. This "know-how" book gives readers a concise understanding of the fundamentals of EMC, from basic mathematical and physical concepts through present, computer-age methods used in analysis, design, and tests. With contributions from leading experts in their fields, the text provides a comprehensive overview. Fortified with information on how to solve potential electromagnetic interference (EMI) problems that may

arise in electronic design, practitioners will be better able to grasp the latest techniques, trends, and applications of this increasingly important engineering discipline. Handbook of Electromagnetic Compatibility contains extensive treatment of EMC applications to radio and wireless communications, fiber optics communications, and plasma effects. Coverage of EMC-related issues includes lightning, electromagnetic pulse, biological effects, and electrostatic discharge. Practical examples are used to illustrate the material, and all information is presented in an accessible and organized format. The text is intended primarily for those practicing engineers who need a good foundation in EMC, but it will also interest faculty and students, since a good portion of the material covered can find use in the classroom or as a springboard for further research. The chapters are written by experts in the field. Details the fundamental principles, then moves to more advanced topics. Covers computational electromagnetics applied to EMC problems. Presents an extensive treatment of EMC applications to: Radio and wireless communications, Fiber optic communications, Plasma effects, Wired circuits, Microchips, Includes practical examples, Fiber optic, Communications, Plasma effects, Wired circuits, Microchips, Includes practical examples, Fiber optic, and further development in industrial applications. The subject continues to occupy physicists, chemists, and engineers interested in both the phenomena itself and possible financially viable industrial devices utilizing the physical concepts. For the past five years, within the publications of the American Physical Society, for example, 40%-60% of all articles submitted to major journals in the area of Solid State Physics have been on the subject of superconductivity, including the newer, extremely important subfield of high temperature superconductivity (high T<sub>c</sub>). The present volume is the first handbook to address this field. It covers both "classic" superconductivity-related topics and high T<sub>c</sub>. Numerous properties, including thermal, electrical, magnetic, mechanical, phase diagrams, and spectroscopic crystallographic structures are presented for many types of superconductors. Critical fields, critical currents, coherence lengths, penetration depths, and transition temperatures are tabulated. First handbook on Superconductivity Coherence lengths and depths are tabulated Crystallographic structures of over 100 superconductor types Main results of several theories are submitted Phase diagrams for synthesizing new superconductors are included This Handbook explains basic concepts underlying electromagnetic properties of materials, addresses ways of deploying them in modern applications, and supplies pertinent data compiled for the first time in a single volume. Examples, including tables, charts, and graphs, are furnished from a practical applications view point of electromagnetic materials in various fields. These applications have grown enormously in recent years, pertinent to electromagnetic shields, radar absorbing materials, bioelectromagnetic phantoms, smart materials, electromagnetically active surfaces, exotic magnets, application-specific electrodes, and ferrites, etc. A comprehensive resource that explores electromagnetic compatibility (EMC) for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles. With contributions from an international panel of aerospace EMC experts, this important text deals with the testing of spacecraft components and subsystems, analysis of crosstalk and field coupling, aircraft communication systems, and much more. The text also includes information on lightning effects and testing, as well as guidance on design principles and techniques for lightning protection. The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems. Filled with the most up-to-date information, illustrative examples, descriptive figures, and helpful scenarios, Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source. This vital guide to electromagnetic compatibility: • Provides information on a range of topics including grounding, coupling, test procedures, standards, and requirements • Offers discussions on standards for aerospace applications • Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners, Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems. "Professional engineers, researchers and students interested in electromagnetic interference, compatibility and its biological safety will find this handbook invaluable."--BOOK JACKET. The first volume ever to cover all aspects of the subject, Architectural Electromagnetic Shielding Handbook provides the practicing architect/engineer with a comprehensive guide to electromagnetic shielding. This practical handbook is a one-stop source for every form of shielding

enclosure now used in commercial and government test laboratories, communication and computer centers, and electromagnetic hardened facilities designed to prevent electromagnetic interference (EMI) from reaching either a sensitive piece of equipment or an unauthorized agency. Additional features include: extensive supporting information on penetrations such as doors, vents, piping, and electromagnetic filters for each type of shielding complete descriptions of modular, welded, and architectural forms of shielding as well as design checklists for shielded enclosure installation detailed descriptions of performance specifications and methods of testing necessary to prove performance Now you can have practical design and manufacturing techniques for solving ESD problems associated with sophisticated equipment used in a home or office environment. This book takes the mystery out of ESD by showing how it is generated and how it affects electronic devices, such as integrated circuits. It provides practical guidelines and the rationale on how ESD solutions can work for you. "More than a million Americans are living with cancer today; another 2 million will be diagnosed with some form of the disease this year and almost half will die within five years. In fact, cancer accounts for one in every five deaths in the United States. This completely revised version of Omnigraphics' critically acclaimed Cancer Sourcebook makes the recent advances in cancer treatments, diagnoses, and risk assessments accessible to the layperson and offers strategies for coping with every stage of the disease for patients, families, and friends."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved In the aerospace industry, avoiding operating issues, especially in regard to space missions and satellite structures, is crucial. The vast majority of these issues can be traced to disturbances in the electromagnetic fields used. Electromagnetic Compatibility for Space Systems Design is a critical scholarly resource that examines the applications of electromagnetic compatibility and electromagnetic interference in the space industry. Featuring coverage on a wide range of topics, such as magnetometers, electromagnetic environmental effects, and electromagnetic shielding, this book is geared toward managers, engineers, and researchers seeking current research on the applications of electromagnetic technologies in the aerospace field. 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. Grounding design and installation is critical for the safety and performance of any electrical or electronic system. Blending theory and practice, this is the first book to provide a thorough approach to grounding from circuit to system. It covers: grounding for safety aspects in facilities, lightning, and NEMP; grounding in printed circuit board, cable shields, and enclosure grounding; and applications in fixed and mobile facilities on land, at sea, and in air. It's an indispensable resource for electrical and electronic engineers concerned with the design of electronic circuits and systems. A hands-on guide to finding the sources of electromagnetic interference and then fixing the problems. Includes basic theory of EMI as well as detailed explanations of why this problem is becoming more serious as the international scope of the communications and electronics industries grow. This book is not a textbook, but rather a handbook that will become a constant source of reference for anyone who runs into trouble with EMI. Includes chapters on grounding, circuit shielding and filtering, preventing EMI in circuit design, as well as EMI sources such as power lines, transmitters, television, consumer electronics, telephones, automobiles, and the ever-frustrating mystery EMI. There are very few other books available even though EMI is constantly discussed and cursed. Most of the books on the market are about how to prevent EMI in circuit design or approaches to understanding the theory behind EMI. Though this information is important, especially to an engineering audience, these books hold no value at all to the technicians and hands-on practitioners in the fields of communications and servicing. These savvy professionals know that the book they are looking for and need is just not on the market. To get the information they need, this group is forced to read every magazine article they can find on the subject and rely on the advice of other professionals whether through technician groups or newsgroups. This book fills a void in the telecommunications and electronics industries by providing

practical troubleshooting information. Addresses the technician's needs and interests Written by an eminent authority in the field Covers correction and prevention of problems with EMI As the number of electrical devices in use continues to grow, so do the challenges of ensuring the electromagnetic compatibility (EMC) of products and systems. Fortunately, engineers have at their disposal an array of approximations, models, and rules-of-thumb to help them meet those challenges. Unfortunately, the number of these tools and guidelines is overwhelming, and worse still is the thought of investigating their origins and confirming their results. The Electromagnetic Compatibility Handbook is an unprecedented compilation of the many approximations, guidelines, models, and rules-of-thumb used in EMC analyses, complete with their sources and their limitations. The book presents these in an efficient question-and-answer format and incorporates an extremely comprehensive set of tables and figures. The author has either derived from basic principles or obtained and verified from their original sources all of the expressions in the tables. Mathcad was used to generate most of the plots and solve many of the equations, and the author includes the Mathcad programs for many of these so users can clearly see the variable assignments, assumptions, and equations. Designed to be of long-lasting value to engineers, researchers, and students, the Electromagnetic Compatibility Handbook is ideal both for quick reference and as a textbook for upper-level and graduate electrical engineering courses. With the latest advances in shielding technology come questions about techniques, approaches and economic benefits. This single-source volume has the answers professionals need. This complete, up-to-date reference guide covers the fundamentals of electromagnetic compatibility (EMC) and cable shielding. The definitive reference on electromagnetic shielding materials, configurations, approaches, and analyses This reference provides a comprehensive survey of options for the reduction of the electromagnetic field levels in prescribed areas. After an introduction and an overview of available materials, it discusses figures of merit for shielding configurations, the shielding effectiveness of stratified media, numerical methods for shielding analyses, apertures in planar metal screens, enclosures, and cable shielding. Up to date and comprehensive, Electromagnetic Shielding: Explores new and innovative techniques in electromagnetic shielding Presents a critical approach to electromagnetic shielding that highlights the limits of formulations based on plane-wave sources Analyzes aspects not normally considered in electromagnetic shielding, such as the effects of the content of the shielding enclosures Includes references at the end of each chapter to facilitate further study The last three chapters discuss frequency-selective shielding, shielding design procedures, and uncommon ways of shielding—areas ripe for further research. This is an authoritative, hands-on resource for practicing telecommunications and electrical engineers, as well as researchers in industry and academia who are involved in the design and analysis of electromagnetic shielding structures. The definitive reference on electromagnetic shielding materials, configurations, approaches, and analyses This reference provides a comprehensive survey of options for the reduction of the electromagnetic field levels in prescribed areas. After an introduction and an overview of available materials, it discusses figures of merit for shielding configurations, the shielding effectiveness of stratified media, numerical methods for shielding analyses, apertures in planar metal screens, enclosures, and cable shielding. Up to date and comprehensive, Electromagnetic Shielding: Explores new and innovative techniques in electromagnetic shielding Presents a critical approach to electromagnetic shielding that highlights the limits of formulations based on plane-wave sources Analyzes aspects not normally considered in electromagnetic shielding, such as the effects of the content of the shielding enclosures Includes references at the end of each chapter to facilitate further study The last three chapters discuss frequency-selective shielding, shielding design procedures, and uncommon ways of shielding—areas ripe for further research. This is an authoritative, hands-on resource for practicing telecommunications and electrical engineers, as well as researchers in industry and academia who are involved in the design and analysis of electromagnetic shielding structures.

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