

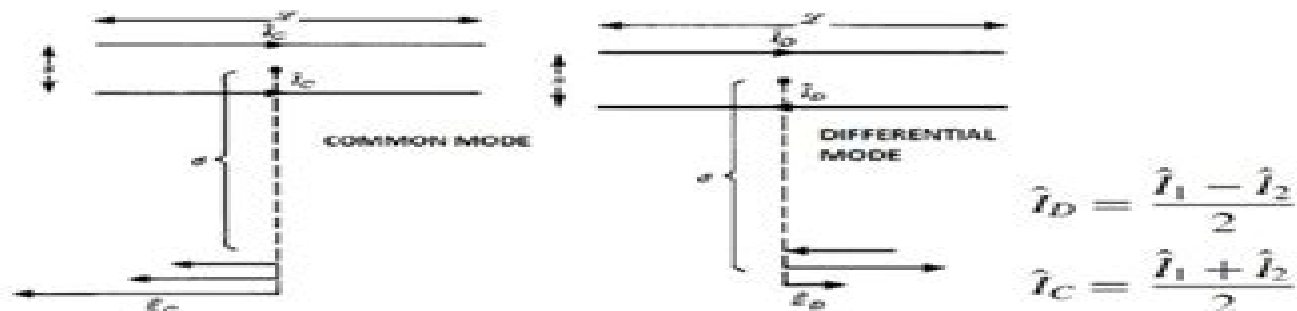
Introduction to Electromagnetic Compatibility Engineering Solutions

CEE 451 – MidTerm II Exam

1. (a) Why do you think the antenna of an EMI receiver is moved 1 m to 4 m vertically during the RE measurements?
 (b) Which currents cause more EMC problems; CM or DM, when and why? (c) How can one believe/trust the result of an EMC test/measurement?

(a) The standards cover a wide frequency range; hence, resizing the dipole for every frequency would be a very time-consuming task. In order to speed the measurement over a wide frequency band, the receiver is swept across the band and the radiated electric field at each frequency is automatically recorded.(page 66 from text book)

(b)



Typically, the common-mode currents will be substantially smaller than the differential-mode currents. Common-mode currents are not inconsequential in typical products, and, moreover, they often produce larger radiated emissions than do the differential mode currents.

Observe that because the differential-mode currents are equal in magnitude but oppositely directed, the radiated electric fields will also be oppositely directed, and will tend to cancel. They will not exactly cancel, since the wires are not collocated, so the net electric field E_D will be the difference between these emission components. The common-mode currents are directed in the same direction, their radiated electric field components will add, producing a net radiated electric field E_C .

$$|\hat{E}_{D, \max}| = 1.316 \times 10^{-14} \frac{|\hat{i}_D| f^2 A}{d}$$

$$|\hat{E}_{C, \max}| = 1.257 \times 10^{-6} \frac{|\hat{i}_C| f^2 \mathcal{L}}{d}$$

Due to the magnitude of the electric field, CM radiation is much more of an emission problem than DM radiation. To minimize CM radiation, common current must be reduced to zero by means of a sensible grounding scheme. From this formulas we can predict that at high frequencies DM currents will cause more problems because of f^2 and we see at low frequencies even the smallest CM current will much more effective than DM currents with same magnitudes.

(c) The key word for this is 'Accreditation'. You should prove this with certificates and show that you are recognized and qualified in that area. Every customer don't have a knowledge about EMC and test qualifications therefore they may ask you if you have a specific certificate. Device which is going to be measured should be calibrated. Measurement tools should be trustworthy. Environment should suppress all other emissions and just the device's emissions should be measured. Tests should be done as it stated in standards.

Study Guide For Electromagnetic Compatibility Engineering

**United States. Department of the
Army**



Study Guide For Electromagnetic Compatibility Engineering:

Materials for Potential EMI Shielding Applications Kuruvilla Joseph, Runcy Wilson, George Gejo, 2019-11-01

Materials for Potential EMI Shielding Applications Processing Properties and Current Trends extensively and comprehensively reviews materials for EMI shielding applications ranging from the principles to possible applications and various types of shielding materials. The book provides a thorough introduction to electromagnetic interference, its effect on both the environment and other electronic items, various materials that are used for electromagnetic interference shielding applications, and its properties. It explains the mechanism behind EMI shielding, the methods by which EMI SE of a given material is estimated, and the different fabrication methods currently employed for fabricating EMI shielding materials. Final sections focus on the theoretical background of EMI shielding and shielding mechanisms. This theoretical background is extended to the physics of EMI shielding, wherein the physics behind mechanism of shielding is explained. Focuses on the different types of available EMI shielding, their applications, processing, characterization, and the mechanism behind their shielding. Discusses how to incorporate EMI shielding with low cost, low density, and high strength. Provides an understanding and clarifies both elementary and practical problems relating to EMI shielding materials. **Substation Automation**

Systems Evelio Padilla, 2015-09-22 Substation Automation Systems Design and Implementation aims to close the gap created by fast changing technologies impacting on a series of legacy principles related to how substation secondary systems are conceived and implemented. It is intended to help those who have to define and implement SAS whilst also conforming to the current industry best practice standards. Key features: Project oriented approach to all practical aspects of SAS design and project development. Uniquely focusses on the rapidly changing control aspect of substation design using novel communication technologies and IEDs (Intelligent Electronic Devices). Covers the complete chain of SAS components and related equipment instead of purely concentrating on intelligent electronic devices and communication networks. Discusses control and monitoring facilities for auxiliary power systems. Contributes significantly to the understanding of the standard IEC 61850 which is viewed as a black box for a significant number of professionals around the world. Explains standard IEC 61850 Communication networks and systems for power utility automation to support all new systems networked to perform control, monitoring, automation, metering, and protection functions. Written for practical application, this book is a valuable resource for professionals operating within different SAS project stages including the specification process, contracting process, design, and engineering process, integration process, testing process, and the operation and maintenance process.

Department of the Navy RDT&E Management Guide United States. Navy Department, 1985 [RDT&E/acquisition Management Guide](#) United States. Navy Department, 1989 *Safety Design for Space Systems* Tommaso Sgobba, Gary Eugene Musgrave, Gary Johnson, Michael T. Kezirian, 2023-07-25 The lack of widespread education in space safety engineering and management has profound effects on project team effectiveness in integrating safety during design. On one

side it slows down the professional development of junior safety engineers while on the other side it creates a sectarian attitude that isolates safety engineers from the rest of the project team To speed up professional development bridge the gap within the team and prevent hampered communication and missed feedback the entire project team needs to acquire and develop a shared culture of space safety principles and techniques The second edition of *Safety Design for Space Systems* continues to address these issues with substantial updates to chapters such as battery safety life support systems robotic systems safety and fire safety This book also features new chapters on crew survivability design and nuclear space systems safety Finally the discussion of human rating concepts safety by design principles and safety management practices have also been revised and improved With contributions from leading experts worldwide this second edition represents an essential educational resource and reference tool for engineers and managers working on space projects Provides basic multidisciplinary knowledge on space systems safety design Addresses how space safety engineering and management can be implemented in practice Includes new chapters on crew survivability design and nuclear space systems safety Fully revised and updated to reflect the latest developments in the field

The Electromagnetic Interference in the Electrical Power Supply System. The long-term variance of the voltage specifications: Татьяна Мятёж, Ольга Атаманова, 2022-12-06

The introduced manual is aimed at theoretical and practical training of master students in Power Engineering discipline 13 04 02 Electrical Power Industry and Electrical Engineering One of the main tasks of the manual is to consolidate the theoretical material studied by the students in the first term of the Master Program The manual also includes the issues of electromagnetic compatibility in electrical supply systems with the object under study the interaction of the system power supply network consumer It allows a student to better understand the physical processes running not only during the interaction of consumer power supply systems and power networks but also during the processes of consumer interactions The authors analyze the quality of consumer electrical power supply on the basis of the system operating conditions in accordance with STANDARD 32144 2013

Certification and Accreditation Programs Directory Michael A. Paré, 1996 Providing detailed profiles on certification and accreditation programmes in the US this book includes information on certification and accreditation programmes that denote skill level professionalism accomplishment and excellence

EMI-Resilient Amplifier Circuits Marcel J. van der Horst, Wouter A. Serdijn, André C. Linnenbank, 2013-07-23 This book enables circuit designers to reduce the errors introduced by the fundamental limitations noise bandwidth and signal power and electromagnetic interference EMI in negative feedback amplifiers The authors describe a systematic design approach for application specific negative feedback amplifiers with specified signal to error ratio SER This approach enables designers to calculate noise bandwidth EMI and the required bias parameters of the transistors used in application specific amplifiers in order to meet the SER requirements

Index of Specifications and Standards, 1997 Safety Design for Space Systems Gary Eugene Musgrave, Axel Larsen, Tommaso Sgobba, 2009-03-27 Progress in space safety lies in the acceptance of

safety design and engineering as an integral part of the design and implementation process for new space systems Safety must be seen as the principle design driver of utmost importance from the outset of the design process which is only achieved through a culture change that moves all stakeholders toward front end loaded safety concepts This approach entails a common understanding and mastering of basic principles of safety design for space systems at all levels of the program organisation Fully supported by the International Association for the Advancement of Space Safety IAASS written by the leading figures in the industry with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle and the International Space Station this book provides a comprehensive reference for aerospace engineers in industry It addresses each of the key elements that impact on space systems safety including the space environment natural and induced human physiology in space human rating factors emergency capabilities launch propellants and oxidizer systems life support systems battery and fuel cell safety nuclear power generators NPG safety habitat activities fire protection safety critical software development collision avoidance systems design operations and on orbit maintenance The only comprehensive space systems safety reference its must have status within space agencies and suppliers technical and aerospace libraries is practically guaranteed Written by the leading figures in the industry from NASA ESA JAXA et cetera with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle small and large satellite systems and the International Space Station Superb quality information for engineers programme managers suppliers and aerospace technologists fully supported by the IAASS International Association for the Advancement of Space Safety

Scientific and Technical Aerospace Reports ,1995 Department Of Defense Index of Specifications and Standards
Federal Supply Class Listing (FSC) Part III November 2005 , Monthly Catalogue, United States Public Documents ,1983

Index of Administrative Publications United States. Department of the Army,1979-05 **Military Publications**
United States. Department of the Army,1978 *Simulation and Optimization of Digital Circuits* Vazgen Melikyan,2018-04-12
This book describes new fuzzy logic based mathematical apparatus which enable readers to work with continuous variables while implementing whole circuit simulations with speed similar to gate level simulators and accuracy similar to circuit level simulators The author demonstrates newly developed principles of digital integrated circuit simulation and optimization that take into consideration various external and internal destabilizing factors influencing the operation of digital ICs The discussion includes factors including radiation ambient temperature electromagnetic fields and climatic conditions as well as non ideality of interconnects and power rails **Military Publications** ,1978-05 *Technical Information Indexes* United States. Naval Air Systems Command,1974 Books in Print ,1991 *Peterson's Guide to Graduate and Professional Programs, an Overview* ,1990

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