

Recent Trends on Electromagnetic Environmental Effects for Aeronautics and Space Applications, 1 volume

Electromagnetic compatibility and regulatory compliance issues are subjects of great importance in electronics engineering. Avoiding problems regarding an electronic system's operation, while always important, is especially critical in space missions and satellite structures. Many problems can be traced to EM field disturbances as interference from unintended sources and other electromagnetic phenomena. As a result, stringent requirements are to be met in terms of electromagnetic emissions levels. The inclusion of this electromagnetic environment in the design of a multimillion mission can lead to a system that is able to withstand whatever challenge the environment throws at it. Failure to do so may lead to important data corruption or loss, destruction of expensive instruments, waste of resources, and even a total mission failure. Research in this area focuses on the studying of the applications of electromagnetic compatibility and electromagnetic interference in the space industry. Recent Trends on Electromagnetic Environmental Effects for Aeronautics and Space Applications will provide relevant theoretical frameworks and the latest empirical research findings in electromagnetic compatibility and electromagnetic interference (EMC/EMI) for the aerospace industry. This book examines all the necessary information for all matters that can possibly affect the system design of a spacecraft and can be a useful reference to space system engineers and more. While highlighting topics such as artificial intelligence, electromagnetic testing, environmental shielding, and EMC modelling techniques, this book is ideal for professionals, spacecraft designers, science and data processing managers, electrical and mechanical engineers, EMC testing engineers, and researchers working in the aerospace industry along with practitioners, researchers, academicians, and students looking for necessary information for all the matters that can possibly affect the system design of a spacecraft.

239,40 €

223,74 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage***Artikelnummer:** 9781799874911**Medium:** Buch**ISBN:** 978-1-7998-7491-1**Verlag:** Engineering Science
Reference**Erscheinungstermin:** 11.11.2020**Sprache(n):** Englisch**Auflage:** Erscheinungsjahr 2020**Produktform:** Kartoniert**Gewicht:** 770 g**Seiten:** 304**Format (B x H):** 216 x 280 mm