1. Record Nr. UNISA996418177903316

Autore	Zhang Hua
Titolo	Spacecraft Electromagnetic Compatibility Technologies [[electronic resource] /] / by Hua Zhang, Yuting Zhang, Chengbo Huang, Yanxing Yuan, Lili Cheng
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4782-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXVII, 544 p. 359 illus., 123 illus. in color.)
Collana	Space Science and Technologies, , 2730-6410
Disciplina	629.1
Soggetti	Aerospace engineering Astronautics Electronics Microelectronics Physics Electronic circuits Optical materials Electronic materials Energy systems Aerospace Technology and Astronautics Electronics and Microelectronics, Instrumentation Applied and Technical Physics Circuits and Systems Optical and Electronic Materials Energy Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Basic Knowledge of EMC and Methods of EMI Control -- Electromagnetic Compatibility Management -- Introduction to Spacecraft EMC Prediction Analysis Methods -- Analysis of Spacecraft System-Level Electromagnetic Compatibility -- EMC Design and Implementation of General Electronic Equipment -- Typical Spacecraft Electronic Component Selection and Module EMC Design -- EMC Design and Rectification for Typical Equipment -- Spacecraft Magnetic Design

	and Test Technology -- EMC Test Verification of Spacecraft Electronic Equipment -- Spacecraft System-level EMC Test Verification. .
Sommario/riassunto	This book explores key techniques and methods in electromagnetic compatibility management, analysis, design, improvement and test verification for spacecraft. The first part introduces the general EMC technology of spacecraft, the electromagnetic interference control method and management of electromagnetic compatibility. The second part discusses the EMC prediction analysis technique and its application in spacecraft, while the third presents the EMC design of spacecraft modules and typical equipment. The final two parts address spacecraft magnetic design testing technologies and spacecraft testing technologies. The book also covers the program control test process, the special power control unit (PCU), electric propulsion, PIM test and multipaction testing for spacecraft, making it a valuable resource for researchers and engineers alike.

2.

Record Nr.	UNINA9911006703203321
Autore	Miesner Thomas O
Titolo	The Electric Power Industry : A Nontechnical Guide
Pubbl/distr/stampa	Tulsa, OK : , : PennWell Books, LLC, , 2022 ©2022
ISBN	9781955578110 1955578117
Edizione	[1st ed.]
Descrizione fisica	1 online resource (329 pages)
Altri autori (Persone)	GalloA. Andrew
Disciplina	333.793/2
Soggetti	Electric utilities Electric power production
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover Page -- Title Page -- Copyright Page -- Figures -- Dedication -- Foreword -- Acknowledgments -- 1 - Electrical Energy Basics -- Electricity and Magnetism -- Electrical Energy -- Electricity -- Magnetism -- Electrical Terms and Relationships -- Electrical

	Potential -- Electrical Transmission -- Electrical Power and Electrical Energy -- Energy Sources -- Energy Consumption -- Electrical Generation -- Electromagnetic Generators -- Alternating Current Extra Credit -- The Electrical Value Chain -- Electric Generation from Primary Energy Sources -- Electricity Usage -- Summary -- 2 - History of Electricity -- Before 1600 -- 1600–1700: Early Discoveries -- 1700–1800: Building on Previous Discoveries -- 1800–1900: Discoveries Lead to Generation and Lighting
Sommario/riassunto	The move from carbon-based fuels to renewables - particularly wind and solar which produce electricity - make this book a "must read" for anyone who works in the energy space or just wants to know more about energy and its future.