

1. Record Nr.	UNINA9910463763303321
Autore	Rossetti Manuel D (Manuel David), <1962->
Titolo	Simulation modeling and arena // Manuel D. Rossetti
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2016 ©2016
ISBN	1-118-60803-8
Edizione	[Second edition.]
Descrizione fisica	1 online resource (746 p.)
Disciplina	003/.3
Soggetti	Computer simulation Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Simulation modeling -- Generating randomness in simulation -- Spreadsheet simulation -- Introduction to simulation in ArenaTM -- Basic process modeling -- Modeling randomness in simulation -- Analyzing simulation output -- Modeling queueing and inventory systems -- Entity movement and material handling -- Miscellaneous topics in ArenaTM modeling -- Application of simulation modeling -- Appendix A : Common distributions -- Appendix B : Statistical tables -- Appendix C : Distributions, operators, functions in ArenaTM -- Appendix D : Queueing theory formulas -- Appendix E : Inventory theory formulas -- Appendix F : Useful equations -- Appendix G : ArenaTM panel modules.
Sommario/riassunto	Emphasizes a hands-on approach to learning statistical analysis and model building through the use of comprehensive examples, problems sets, and software applications With a unique blend of theory and applications, Simulation Modeling and Arena®, Second Edition integrates coverage of statistical analysis and model building to emphasize the importance of both topics in simulation. Featuring introductory coverage on how simulation works and why it matters, the Second Edition expands coverage on static simulation and the applications of spreadsheets to perform simulation. The new edition

2. Record Nr.	UNINA9911020475003321
Autore	Paul Clayton R
Titolo	Introduction to electromagnetic compatibility // Clayton R. Paul
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2006
ISBN	9786610288205 9781280288203 1280288205 9781613445099 1613445091 9780470364079 0470364076 9780471758150 0471758159 9780471758143 0471758140
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (1013 p.)
Collana	Wiley series in microwave and optical engineering
Disciplina	621.382/24 621.38224
Soggetti	Electromagnetic compatibility Electronic circuits - Noise Digital electronics Shielding (Electricity)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Electromagnetic Compatibility Second Edition; Contents; Preface; 1 Introduction to Electromagnetic Compatibility (EMC); 1.1 Aspects of EMC; 1.2 History of EMC; 1.3 Examples; 1.4 Electrical Dimensions and Waves; 1.5 Decibels and Common EMC Units; 1.5.1 Power Loss in Cables; 1.5.2 Signal Source Specification; Problems; References; 2 EMC Requirements for Electronic Systems; 2.1 Governmental Requirements; 2.1.1 Requirements for Commercial Products Marketed in the United States; 2.1.2 Requirements for

Commercial Products Marketed outside the United States  
2.1.3 Requirements for Military Products Marketed in the United States  
2.1.4 Measurement of Emissions for Verification of Compliance;  
2.1.4.1 Radiated Emissions; 2.1.4.2 Conducted Emissions; 2.1.5 Typical Product Emissions; 2.1.6 A Simple Example to Illustrate the Difficulty in Meeting the Regulatory Limits; 2.2 Additional Product Requirements;  
2.2.1 Radiated Susceptibility (Immunity); 2.2.2 Conducted Susceptibility (Immunity); 2.2.3 Electrostatic Discharge (ESD); 2.2.4 Requirements for Commercial Aircraft; 2.2.5 Requirements for Commercial Vehicles; 2.3 Design Constraints for Products  
2.4 Advantages of EMC Design  
Problems; References; 3 Signal Spectra-  
the Relationship between the Time Domain and the Frequency Domain;  
3.1 Periodic Signals; 3.1.1 The Fourier Series Representation of Periodic Signals; 3.1.2 Response of Linear Systems to Periodic Input Signals;  
3.1.3 Important Computational Techniques; 3.2 Spectra of Digital Waveforms; 3.2.1 The Spectrum of Trapezoidal (Clock) Waveforms;  
3.2.2 Spectral Bounds for Trapezoidal Waveforms; 3.2.2.1 Effect of Rise/Falltime on Spectral Content; 3.2.2.2 Bandwidth of Digital Waveforms; 3.2.2.3 Effect of Repetition Rate and Duty Cycle  
3.2.2.4 Effect of Ringing (Undershoot/Overshoot)  
3.2.3 Use of Spectral Bounds in Computing Bounds on the Output Spectrum of a Linear System; 3.3 Spectrum Analyzers; 3.3.1 Basic Principles; 3.3.2 Peak versus Quasi-Peak versus Average; 3.4 Representation of Nonperiodic Waveforms; 3.4.1 The Fourier Transform; 3.4.2 Response of Linear Systems to Nonperiodic Inputs; 3.5 Representation of Random (Data) Signals; 3.6 Use of SPICE (PSPICE) In Fourier Analysis; Problems; References; 4 Transmission Lines and Signal Integrity; 4.1 The Transmission-Line Equations; 4.2 The Per-Unit-Length Parameters  
4.2.1 Wire-Type Structures  
4.2.2 Printed Circuit Board (PCB) Structures;  
4.3 The Time-Domain Solution; 4.3.1 Graphical Solutions; 4.3.2 The SPICE Model; 4.4 High-Speed Digital Interconnects and Signal Integrity;  
4.4.1 Effect of Terminations on the Line Waveforms; 4.4.1.1 Effect of Capacitive Terminations; 4.4.1.2 Effect of Inductive Terminations; 4.4.2 Matching Schemes for Signal Integrity; 4.4.3 When Does the Line Not Matter, i.e., When is Matching Not Required?; 4.4.4 Effects of Line Discontinuities; 4.5 Sinusoidal Excitation of the Line and the Phasor Solution  
4.5.1 Voltage and Current as Functions of Position

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## Sommario/riassunto

A landmark text thoroughly updated, including a new CDAs digital devices continue to be produced at increasingly lower costs and with higher speeds, the need for effective electromagnetic compatibility (EMC) design practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations. The Second Edition of this landmark text has been thoroughly updated and revised to reflect these major developments that affect both academia and the electronics industry. Readers familiar with the First Edition will find much new mater

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