

1. Record Nr.	UNINA990008580980403321
Autore	Harman, Gilbert
Titolo	Reliable reasoning : induction and statistical learning theory / Gilbert Hartman and Sanjeev Kulkarni
Pubbl/distr/stampa	Cambridge, MA ; London : The Mit Press, c2007
ISBN	978-0-262-08360-7
Descrizione fisica	x, 108 p. : ill. ; 21 cm
Collana	The Jean Nicod lectures
Altri autori (Persone)	Kulkarni, Sanjeev
Locazione	FI1
Collocazione	4A-193
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2.	Record Nr.	UNINA990000887900403321
	Autore	Muskhelishvili, N.I.
	Titolo	Some Basic Problems the Mathematical Theory of Elasticity
	Pubbl/distr/stampa	Netherland : Noordhoff, 1963
	Descrizione fisica	p. 718 : ill. ; cm 22
	Locazione	IINTC
	Collocazione	03 TE.0,25
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
3.	Record Nr.	UNINA9911019616303321
	Autore	Vendelin George D (George David), <1938->
	Titolo	Microwave circuit design using linear and nonlinear techniques [[electronic resource] /] / George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde
	Pubbl/distr/stampa	Hoboken, NJ, : Wiley, 2005
	ISBN	1-280-27664-9 9786610276646 0-470-35664-2 0-471-71583-2 1-60119-378-5 0-471-71582-4
	Edizione	[2nd ed.]
	Descrizione fisica	1 online resource (1080 p.)
	Altri autori (Persone)	PavioAnthony M RohdeUlrich L
	Disciplina	621.38132 621.381320285
	Soggetti	Microwave integrated circuits Microwave amplifiers Oscillators, Microwave Electronic circuit design
	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	MICROWAVE CIRCUIT DESIGN USING LINEAR AND NONLINEAR TECHNIQUES; CONTENTS; FOREWORD; PREFACE; 1 RF/MICROWAVE SYSTEMS; 1.1 Introduction; 1.2 Maxwell's Equations; 1.3 RF Wireless/Microwave/Millimeter-Wave Applications; 1.4 Frequency Bands, Modes, and Waveforms of Operation; 1.5 Analog and Digital Requirements; 1.6 Elementary Definitions; 1.7 Basic RF Transmitters and Receivers; 1.8 Modern CAD for Nonlinear Circuit Analysis; 1.9 Dynamic Load Line; References; Bibliography; Problems; 2 LUMPED AND DISTRIBUTED ELEMENTS; 2.1 Introduction; 2.2 Transition from RF to Microwave Circuits 2.3 Parasitic Effects on Lumped Elements2.4 Distributed Elements; 2.5 Hybrid Element: Helical Coil; References; Bibliography; Problems; 3 ACTIVE DEVICES; 3.1 Introduction; 3.2 Diodes; 3.2.1 Large-Signal Diode Model; 3.2.2 Mixer and Detector Diodes; 3.2.3 Parameter Trade-Offs; 3.2.4 Mixer Diodes; 3.2.5 pin Diodes; 3.2.6 Tuning Diodes; 3.2.7 Abrupt Junction; 3.2.8 Linearly Graded Junction; 3.2.9 Hyperabrupt Junction; 3.2.10 Silicon Versus Gallium Arsenide; 3.2.11 Q Factor or Diode Loss; 3.2.12 Diode Problems; 3.2.13 Diode-Tuned Resonant Circuits; Tuning Range; 3.3 Microwave Transistors 3.3.1 Transistor Classification3.3.2 Transistor Structure Types; 3.3.3 dc Model of BJT; 3.4 Heterojunction Bipolar Transistor; 3.5 Microwave FET; 3.5.1 MOSFETs; 3.5.2 Gallium Arsenide MESFETs; 3.5.3 HEMT; 3.5.4 Foundry Services; References; Bibliography; Problems; 4 TWO-PORT NETWORKS; 4.1 Introduction; 4.2 Two-Port Parameters; 4.3 S Parameters; 4.4 S Parameters from SPICE Analysis; 4.5 Stability; 4.6 Power Gains, Voltage Gain, and Current Gain; 4.6.1 Power Gain; 4.6.2 Voltage Gain and Current Gain; 4.6.3 Current Gain; 4.7 Three-Ports; 4.8 Derivation of Transducer Power Gain 4.9 Differential S Parameters4.9.1 Measurements; 4.9.2 Example; 4.10 Twisted-Wire Pair Lines; 4.11 Low-Noise and High-Power Amplifier Design; 4.12 Low-Noise Amplifier Design Examples; References; Bibliography; Problems; 5 IMPEDANCE MATCHING; 5.1 Introduction; 5.2 Smith Charts and Matching; 5.3 Impedance Matching Networks; 5.4 Single-Element Matching; 5.5 Two-Element Matching; 5.6 Matching Networks Using Lumped Elements; 5.7 Matching Networks Using Distributed Elements; 5.7.1 Twisted-Wire Pair Transformers; 5.7.2 Transmission Line Transformers; 5.7.3 Tapered Transmission Lines 5.8 Bandwidth Constraints for Matching NetworksReferences; Bibliography; Problems; 6 MICROWAVE FILTERS; 6.1 Introduction; 6.2 Low-Pass Prototype Filter Design; 6.2.1 Butterworth Response; 6.2.2 Chebyshev Response; 6.3 Transformations; 6.3.1 Low-Pass Filters: Frequency and Impedance Scaling; 6.3.2 High-Pass Filters; 6.3.3 Bandpass Filters; 6.3.4 Narrow-Band Bandpass Filters; 6.3.5 Band-Stop Filters; 6.4 Transmission Line Filters; 6.4.1 Semilumped Low-Pass Filters; 6.4.2 Richards Transformation; 6.5 Exact Designs and CAD Tools; 6.6 Real-Life Filters; 6.6.1 Lumped Elements 6.6.2 Transmission Line Elements
Sommario/riassunto	The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to

the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design
