1. 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

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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