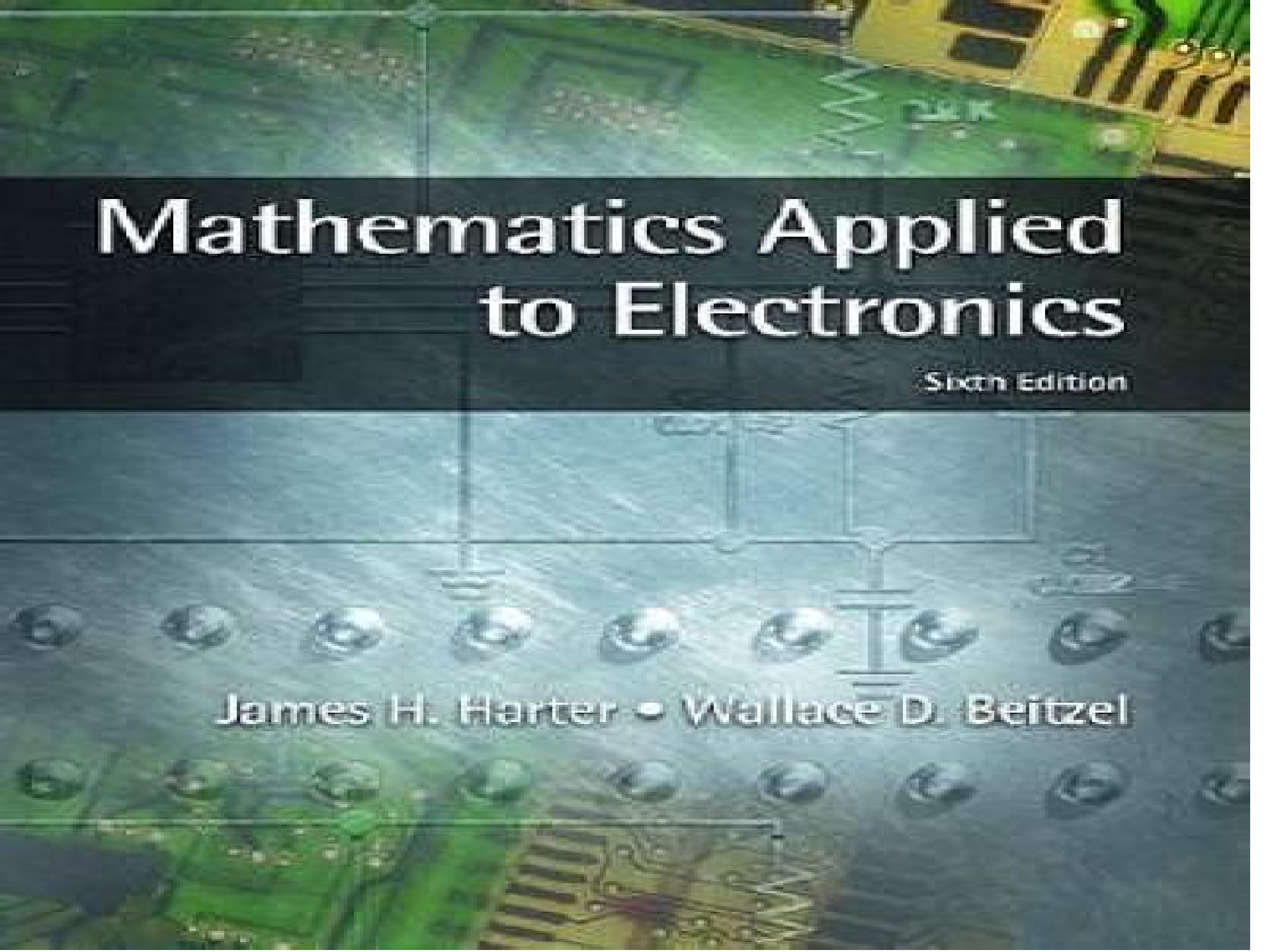




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Sixth Edition

James H. Harter • Wallace D. Beitzel

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Microwave RF Antennas and Circuits Ofer Aluf,2016-12-01 This book describes a new concept for analyzing RF microwave circuits which includes RF microwave antennas The book is unique in its emphasis on practical and innovative microwave RF engineering applications The analysis is based on nonlinear dynamics and chaos models and shows comprehensive benefits and results All conceptual RF microwave circuits and antennas are innovative and can be broadly implemented in engineering applications Given the dynamics of RF microwave circuits and antennas they are suitable for use in a broad range of applications The book presents analytical methods for microwave RF antennas and circuit analysis concrete examples and geometric examples The analysis is developed systematically starting with basic differential equations and their bifurcations and subsequently moving on to fixed point analysis limit cycles and their bifurcations Engineering applications include microwave RF circuits and antennas in a variety of topological structures RFID ICs and antennas microstrips circulators cylindrical RF network antennas Tunnel Diodes TDs bipolar transistors field effect transistors FETs IMPATT amplifiers Small Signal SS amplifiers Bias T circuits PIN diode circuits power amplifiers oscillators resonators filters N turn antennas dual spiral coil antennas helix antennas linear dipole and slot arrays and hybrid translinear circuits In each chapter the concept is developed from the basic assumptions up to the final engineering outcomes The scientific background is explained at basic and advanced levels and closely integrated with mathematical theory The book also includes a wealth of examples making it ideal for intermediate graduate level studies It is aimed at electrical and electronic engineers RF and

microwave engineers students and researchers in physics and will also greatly benefit all engineers who have had no formal instruction in nonlinear dynamics but who now desire to bridge the gap between innovative microwave RF circuits and antennas and advanced mathematical analysis methods **The Publishers' Trade List Annual** ,1984 **Army Research Task Summary: Electronics, mathematics, operations research, planning & systems research, and interdisciplinary research** United States. Army Research Office,1961 **Electronics Simplified** Ian Sinclair,2011-05-17
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