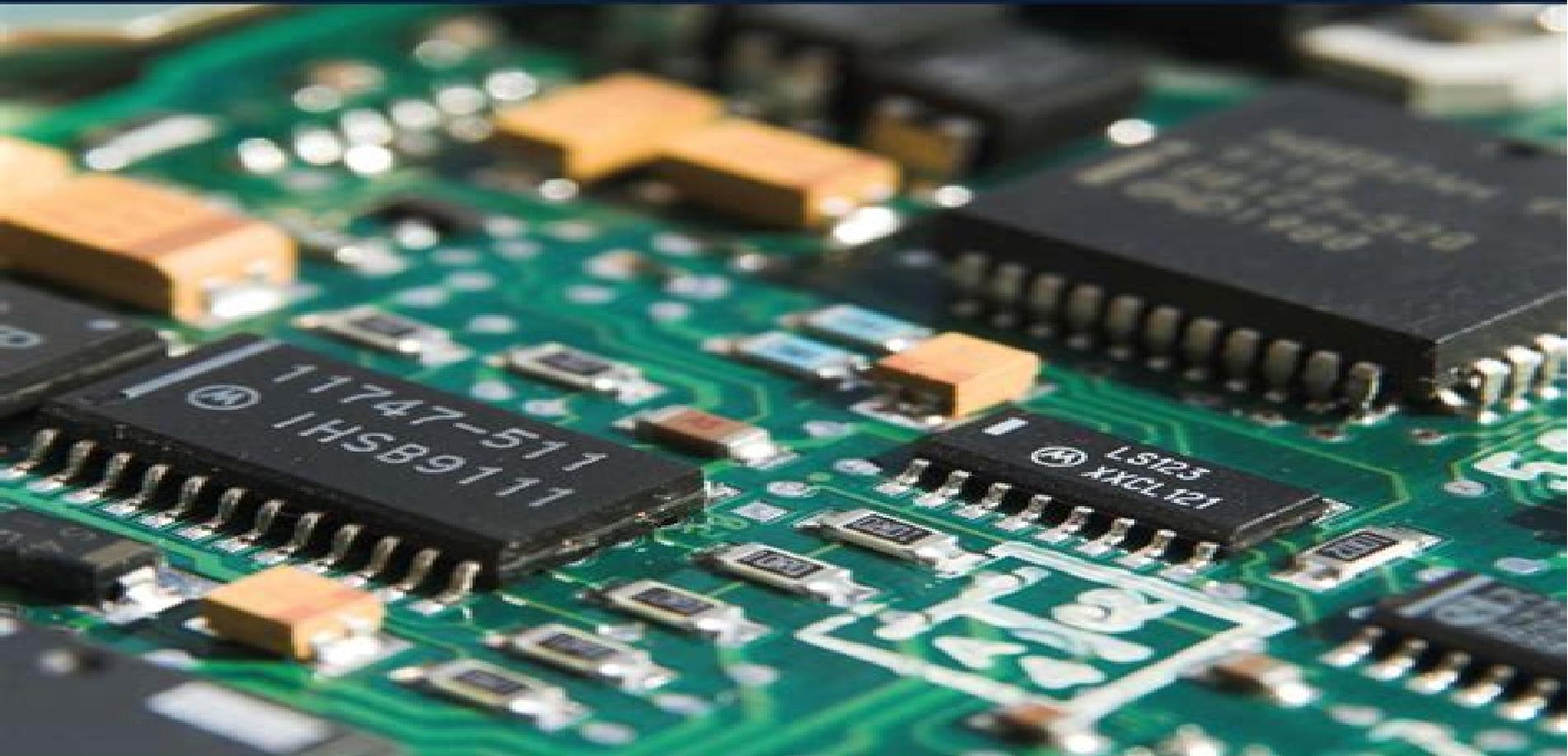


CIRCUIT ANALYSIS AND DESIGN

*Fawwaz T. Ulaby, Michel M. Maharbiz,
& Cynthia M. Furse*



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Practical and Experimental Robotics Ferat Sahin,Pushkin Kachroo,2017-12-19 Taking a completely hands on approach using cheap and easily available robotics kits Practical and Experimental Robotics provides a detailed exploration of the construction theory and experiments for different types of robots With topics ranging from basic stamp microcontrollers to biped and propeller based robots the text contains laboratory experiments examples with solutions and case studies The authors begin with a review of the essential elements of electronics and mechanics They describe the basic mechanical construction and electrical control of the robot then give at least one example of how to operate the robot using microcontrollers or software The book includes a reference chapter on Basic Stamp Microcontollers with example code pieces and a chapter completely devoted to PC interfacing Each chapter begins with the fundamentals then moves on to advanced topics thus building a foundation for learning from the ground up Building a bridge between technicians who have hands on experience and engineers with a deeper insight into the workings the book covers a range of machines from arm wheel and leg robots to flying robots and robotic submarines and boats Unlike most books in this field this one offers a complete set of topics from electronics mechanics and computer interface and programming making it an independent source for knowledge and understanding of robotics *Electric Circuits* James William Nilsson,Susan A. Riedel,2005

Scientific and Technical Books and Serials in Print ,1984 Principles of Superconducting Quantum Computers Daniel D. Stancil,Gregory T. Byrd,2022-04-19 Explore the intersection of computer science physics and electrical and computer engineering with this discussion of the engineering of quantum computers In Principles of Superconducting Quantum Computers a pair of distinguished researchers delivers a comprehensive and insightful discussion of the building of quantum computing hardware and systems Bridging the gaps between computer science physics and electrical and computer engineering the book focuses on the engineering topics of devices circuits control and error correction Using data from actual quantum computers the authors illustrate critical concepts from quantum computing Questions and problems at the end of each chapter assist students with learning and retention while the text offers descriptions of fundamentals concepts ranging from the physics of gates to quantum error correction techniques The authors provide efficient implementations of classical computations and the book comes complete with a solutions manual and demonstrations of many of the concepts discussed within It also includes A thorough introduction to qubits gates and circuits including unitary transformations single qubit gates and controlled two qubit gates Comprehensive explorations of the physics of single qubit gates including the requirements for a quantum computer rotations two state systems and Rabi oscillations Practical discussions of the physics of two qubit gates including tunable qubits SWAP gates controlled NOT gates and fixed frequency qubits In depth examinations of superconducting quantum computer systems including the need for cryogenic temperatures transmission lines S parameters and more Ideal for senior level undergraduate and graduate students in electrical and computer

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