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IC DESIGN BASIS (ELECTRONIC SCIENCE AND TECHNOLOGY. NATIONAL DEFENSE CHARACTERISTICS OF MATERIALS)



paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 266 Publisher: Beijing University of Aeronautics Pub. Date :2011-08-01 version 1. Cheng-Hua Wang. Chen Xin eds IC Design 'describes the basics of integrated circuit design. intuitive. closely describes the basic principles of integrated circuit design and concepts; the same time. progressive approach to providing a large number of design examples for readers to learn. The book is divided into nine chapters. Chapter 1. the development of integrated circuits. classification. design and manufacture are outlined. Chapter 2 describes the basis of semiconductor physics. Chapter 3 describes the semiconductor device models. Chapter 4 describes the manufacture of integrated circuits. layout and packaging. Chapter 5 describes the simulation unit and conversion circuits. Chapter 6 describes the digital unit circuit design. Chapter 7 describes ASICSoC system design. Chapter 8 describes the integrated circuit testing and testability design. Chapter 9 describes integrated circuit design tools. and LCD controller as a design example. IC Design 'as the basis for integrated circuit design materials. focus on relevant theories. conclusions and application of knowledge. and integrated circuit design for the electric field associated with the professional class undergraduates and graduate students. but also for the the field of engineering and technical personnel and self-reference. Contents: Chapter 1 Introduction 1.1 Overview 1.2 integrated development of the classification of integrated circuits integrated circuit design method 1.3 1.4 1.5 IC circuit design automation of manufacturing problems and thinking exercises in Chapter 2 Introduction to Semiconductor Physics semiconductor-based 2.1 2.1.1 Basic properties of semiconductors 2.1.2 Common 2.1.3 semiconductor crystal structure of conductive mechanisms: diffusion and drift of the conductivity of semiconductors 2.1.4 2.2 2.2.1 semiconductor energy band and energy levels of quantum states of electrons in the semiconductor band...



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