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The New Semiconductor Electron Theory

By Keming Wang

Tate Publishing. Paperback. Book Condition: New. Paperback. 92 pages. Dimensions: 8.0in. x 5.0in. x 0.2in. The New Semiconductor Theory establishes the new semiconductor electron theory (SET) based on the modulated conductivity and negated the current SET based on the controlled current, which is included in the field effect theory according to the verifiable and indisputable facts. Keming and Runze Wang demonstrate how the mechanism of semiconductor conductivity modulation is the P-N junction. The transistor conductivity is in fact modulated by the voltage applied to the emitter junction (or gate). The variation of the voltage applied on the emitter junction (or gate) changes the carrier distribution of the emitter junction (or P-N junction of source) and modulates the transistor conductivity and resistivity. The invention of a valve enables information to be transmitted by electrons and propel the information technology forward. With the rapid development of both the information science technology and electron science technology, the valve gradually reveals its own defect in bulky, heavy energy loss, and lower reliability thus a new research is seeking a new information transformation device to replace the valve. This book is the root transformation in semiconductor electron theory and technology. The new theory is the basis of semiconductor...



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