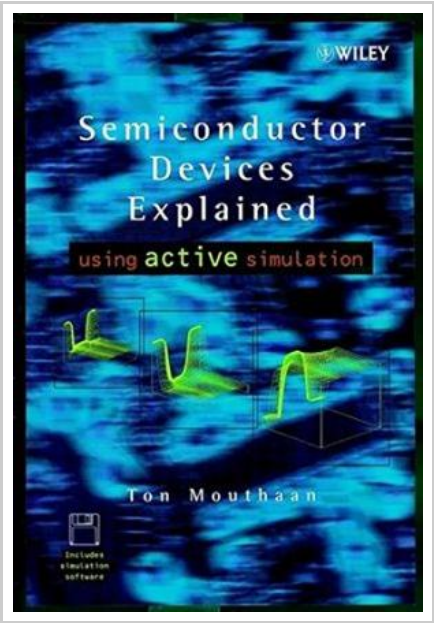

Semiconductor Devices Explained: Using Active Simulation (Mixed media product)

By Ton Mouthaan

John Wiley and Sons Ltd, United Kingdom, 2000. Mixed media product. Book Condition: New. 1. Auflage. 251 x 174 mm. Language: English . Brand New Book. Offers an innovative and accessible new approach to the teaching of the fundamentals of semiconductor components by exploiting simulation to explain the mechanisms behind current in semiconductor structures. Simulation is a popular tool used by engineers and scientists in device and process research and the accompanying two dimensional process and device simulation software MicroTec , enables students to make their own devices and allows the recreation of real performance under varying parameters. There is also an accompanying site containing ICECREAM software (Integrated Circuits and Electronics group Computerized Remedial Education And Mastering) which improves understanding of the physics involved and covers semiconductor physics, junction diodes, silicon bipolar and MOS transistors and photonic devices like LEDs and lasers. Features include: MicroTec diskette containing a two-dimensional process and device simulator on which the many simulation exercises mentioned in the text can be performed thereby facilitating learning through experimentation Computer aided education software (accessible vita) featuring question and answer games, which enables students to enhance their understanding of the physics involved and allows lecturers to set assignments...

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