

Operation And Modeling Of The Mos Transistor

4th Ed

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this textbook has been written especially for the courses of b e b tech for all technical

universities of india it contains twenty two chapters in all besides this an exhaustive set of short answer question and a section on gate and upsc examinations questions with answers solutions have been added at the end to make this treatise comprehensive and complete book on this subject

the fourth edition of this book has been widely revised it includes additional chapters and some sections are complemented with either new ones or an extension of their content in this latest edition a complete treatment of the physics and properties of semiconductors is presented covering transport phenomena in semiconductors scattering mechanisms radiation effects and displacement damages furthermore this edition presents a comprehensive treatment of the coulomb scattering on screened nuclear potentials resulting from electrons protons light and heavy ions ranging from very low up to ultra relativistic kinetic energies and allowing one to derive the corresponding niel non ionizing energy loss doses deposited in any material the contents are organized into two parts chapters 1 to 7 cover particle interactions and displacement damage while the remaining chapters focus on radiation environments and particle detection this book can serve as reference for graduate students and final year undergraduates and also as supplement for courses in particle astroparticle space physics and instrumentation a section of the book is directed toward courses in medical physics researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation will also find the book useful

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