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this book focuses on the modeling and analysis of semiconductor devices. it covers the fabrication processes of semiconductor devices, the physics of semiconductor devices, the modeling and simulation of semiconductor devices, and the analysis of semiconductor devices. the third edition ofphysics of semiconductor deviceshas been successfully sold for more than 20 years, and is widely used as a reference textbook in undergraduate and graduate courses. the fourth edition of the text remains a unique reference for the wide range of fundamental and applied processes and effects that contribute to the performance of semiconductor devices. the fourth edition also updates the older references to current literature, while maintaining a degree of consistency with the previous editions. this chapter focuses on semiconductor devices and their effects on the properties of media. the topics discussed include basic band-structure theory, the fermi level, doping, temperature, diffusion, impurities, resistivity, and the formation of semiconductor junctions. the chapter also covers the application of semiconductor doping, the doping of crystalline silicon, and the doping of polysilicon. the effects of doping on charge-carrier concentration, carrier lifetime, the capture of radiation, optical transparency, and semiconductor device performance are discussed. the fourth edition ofphysics of semiconductor devicesoffers a comprehensive overview of the fundamental physics and performance-limiting phenomena associated with the development of semiconductor materials and devices, including some of the semiconductor materials and devices that have been commercialized over the last few decades. a broad range of applications are covered, including the material properties, processes, and technology used to fabricate the materials, microstructures, and devices. the fourth edition also includes a comprehensive discussion of the use of semiconductor materials and devices in a wide variety of applications, including sensors, computers, and power conversion. this book is intended as a self-contained text for students and researchers in materials physics, physics of semiconductor devices, and semiconductor device technology. the first edition of this book was published in 1995, the second edition in 2001, the third edition in 2005, and the fourth edition in 2010.

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the book also presents an excellent introduction to the physics of sic and gan-based devices and their benefits, and discusses the potential future of these materials. the book reviews the history of bipolar devices and their development, as well as the history and current state-of-the-art of sic and gan-based devices. physics of semiconductor devices has been very well received in the academic community and the power device community. the book has been cited by more than 1,100 publications. in addition to the international journal of high-temperature electronics and applications, physics of semiconductor devices has been cited by many key ieee journals, such as ieee transactions on electron devices, journal of applied physics, and journal of applied physics letters. this book addresses the fundamental physics, engineering, and design aspects of sic and gan-based devices. it presents the history and state-of-the-art of sic and gan-based devices, and the future

prospects for these technologies. the book provides an excellent introduction to these materials and their properties. physics interface in the semiconductor module allows you to simulate electrical devices built out of semiconducting domains. the simulation is based on the equations of poisson's and drude's equations, and on the constitutive equations for electric fields. these equations have been coupled with the built-in mobility equations of the module. within the semiconductor interface, the simulation is based on built-in models for carrier mobility, carrier recombination, and external fields, and on the equations for poisson's and drude's equations. additional support in the form of a charge-neutrality relation is available. several built-in models for carrier recombination are available, and the possibility to specify your own recombination is also included. in addition to that, the semiconductor interface includes the possibility to add auger, shockley-read hall, and direct recombination. the physics module is based on built-in models for carrier mobility, carrier recombination, and external fields. each model is in comsol's mph-file format, and the model comes with documentation that includes a theoretical background and step-by-step instructions on how to create the model. the models are available in comsol as mph-files that you can open for further investigation. 5ec8ef588b

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