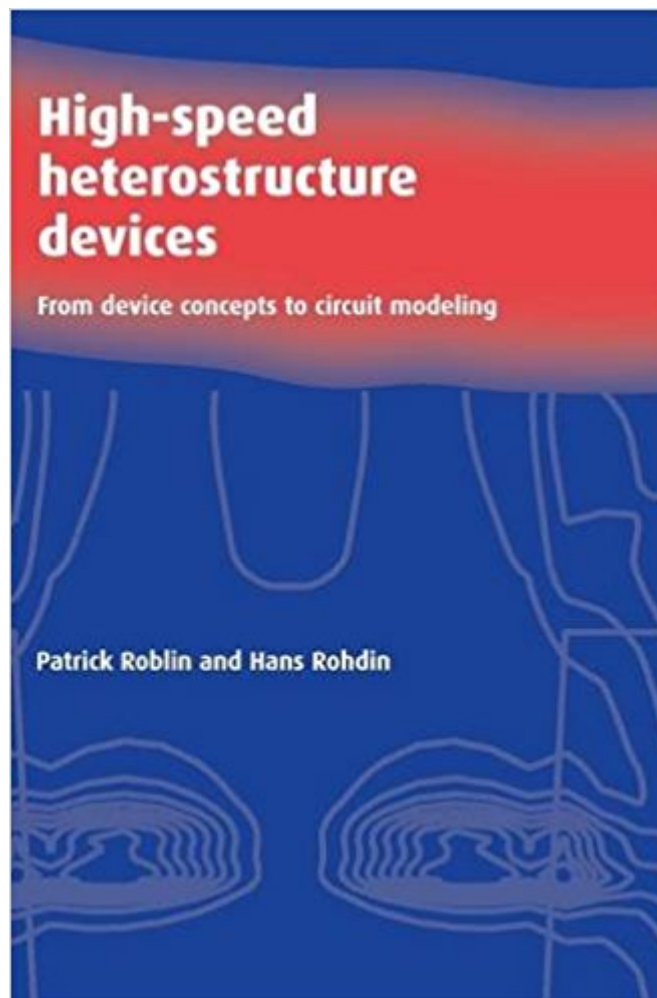




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# High-Speed Heterostructure Devices: From Device Concepts To Circuit Modeling



## Synopsis

High-Speed Heterostructure Devices describes modern high-speed semiconductor devices intended for both graduate students and practicing engineers. The book details the underlying physics of heterostructures as well as some of the most recent techniques for modeling and simulating these devices. The emphasis is on heterostructure devices of the immediate future such as the MODFET, HBT and RTD. The authors also introduce the operating principles of other devices, including the Bloch Oscillator, RITD, Gunn diode, quantum cascade laser and SOI and LD MOSFETs. The book comes with a complete set of homework problems and a web link to MATLAB programs.

## Book Information

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## Customer Reviews

"...the book is clear and easy to use. The material is presented in an engaging manner and the reader is guided expertly through the territory of heterostructure devices. Apart from its intended use as a book for graduate students, it will be sought after by researchers and engineers, as it presents research material which is disseminated throughout the research literature and has never before been presented together in a book." Current Engineering Practice

Semiconductor heterostructures are spearheading the drive toward smaller, faster and lower power devices. Developed out of a graduate course taught at Ohio State University, this is a timely and

comprehensive text on heterostructures, covering the physics, modeling techniques and the latest devices including MODFETs, HBTs and RTDs. Numerous homework exercises and a web link to MATLAB examples are included. The book will also be of great interest to researchers and engineers, since much of the research material has been gathered together and presented in book form for the first time.

Not an easy read at all. I would put it at PhD level only. However, it covers, in detail, material that you simply can't find anywhere else.

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