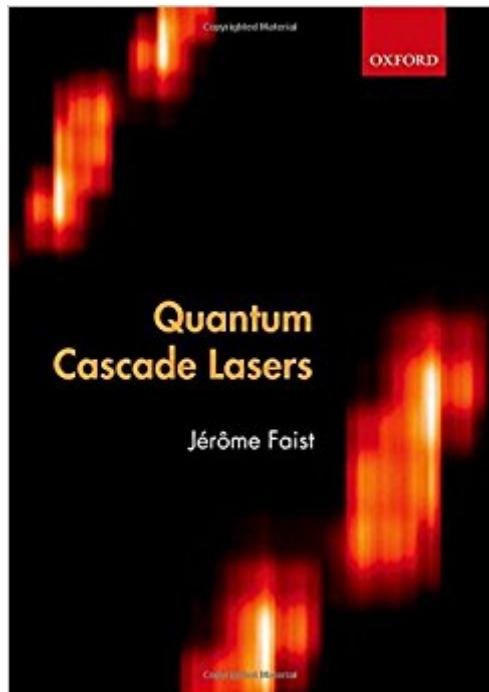


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Quantum Cascade Lasers



Synopsis

This book provides an introduction to quantum cascade lasers, including the basic underlying models used to describe the device. It aims at giving a synthetic view of the topic including the aspects of the physics, the technology, and the use of the device. It should also provide a guide for the application engineer to use this device in systems. The book is based on lecture notes of a class given for Masters and beginning PhD students. The idea is to provide an introduction to the new and exciting developments that intersubband transitions have brought to the use of the mid-infrared and terahertz region of the electromagnetic spectrum. The book provides an introductory part to each topic so that it can be used in a self-contained way, while references to the literature will allow deeper studies for further research.

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"Overall, Quantum Cascade Lasers promises to become an essential complement to other popular treatments of semiconductor laser physics..." --Physics Today

Jérôme Faist, Institute for Quantum Electronics, ETH Zurich Jerome Faist was born in Switzerland and obtained his Ph.D. in Physics in 1989 from the Swiss Institute of Technology in Lausanne. He then worked successively at IBM Rueschlikon (1989-91) and Bell Laboratories (1991-97). He was nominated full professor in the physics institute of the University of Neuchâtel (1997) and then in the ETH Zurich (2007). His key contribution to the development of the quantum

cascade laser was recognized by a number of awards that include the National Swiss Latsis Prize 2002.

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