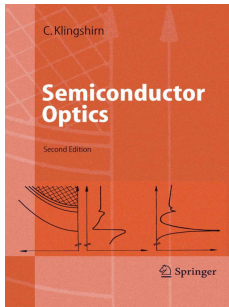


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## SEMICONDUCTOR OPTICS EBOOKS 2019



Author: Claus F. Klingshirn

Release Date: Lanzamiento previsto: @@expectedReleaseDate@@

The book on Semiconductor Optics has been favourably received by the students and the scientific community worldwide. After the first edition, which appeared in 1995 several reprints became necessary starting from 1997, one of them for the Chinese market. They contained only rather limited updates of the material and corrections. In the meantime scientific progress brought a lot of new results, which necessitate a new, seriously revised edition. This progress includes bulk semiconductors, but especially structures of reduced dimensionality. These new trends and results are partly included in existing chapters e. g. for phonons or for time-resolved spectroscopy, partly new chapters have been introduced like the ones on cavity polaritons and photonic structures. We based the description of the optical properties again on the simple and intuitively clear model of the Lorentz-oscillators and the concept of polaritons as the quanta of light in matter. But since there is presently a trend to describe at least the optical properties of the electronic system of semiconductors by the optical or the semiconductor Bloch equations, a chapter has been added on this topic written by Prof. Dr. R. v. Baltz (Karlsruhe) to familiarize the reader with this concept, too, which needs a bit more quantum mechanics compared to the approach used here. The chapter on group theory has been revised by Prof. Dr. K. Hummer (Karlsruhe/Forchheim) Karlsruhe, C. F. Klingshirn September 2004 Preface to the First Edition One of the most prominent senses of many animals and, of course, of human beings is sight or vision.

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