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Material Properties and Characterization: Optical Processes in Semiconductors Electronics Laboratory, ETH-Z 01.12.2006 0-3 Literature: Primary Literature: M. Fox, Optical Properties of Solids, Oxford University Press, 2001 The course is based on this book, which is the main source of reference.

Material Properties and Characterization Optical Processes

1.5 Optical processes and their applications 7 Classical theory of optical processes 9 2.1 Introduction 9 2.2 Macroscopic theory of absorption 9 2.3 Light absorption in a medium: macroscopic theory 11 2.4 Index of refraction in a conducting medium 13 2.5 Classical theory of susceptibility 14 2.6 Basic interaction between light and matter:

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The first half of the book presents basic concepts, such as the semiconductor physics needed to understand the operation of lasers, p-n junction theory, alloys, heterostructures, quantum nanostructures, k.p theory, waveguides, resonators, filters, and optical processes.

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Theory Of Optical Processes In Semiconductors Paperback

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