

Preface

Photonics deals with the generation, propagation, manipulation, and detection of (usually coherent) light waves. This book provides a comprehensive introduction into this important field, from the electrodynamic and quantum mechanic fundamentals to the level of photonic components and building blocks such as lasers, amplifiers, modulators, waveguides, and detectors.

The book is intended for senior level and graduate students of applied physics and electrical engineering as well as engineers in fields such as laser technology, optical communications, laser materials processing, and medical laser applications who wish to gain an in-depth understanding of photonics.

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An Introduction

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