



Laser Fundamentals

By William T. Silfvast

Cambridge University Press, 2008. Paperback. Book Condition: New. 2nd edition. A well-known introduction to the physical and engineering principles of laser operation and design for graduates and researchers who specialize in lasers, this second edition includes much new material, especially in the areas of solid-state lasers, semiconductor lasers, and laser cavities. Throughout the text, this book uses simple explanations on key concepts, to lead the reader from the basics of laser action to advanced topics in laser physics and engineering. The new edition contains a new chapter on laser operation above threshold, including extensive discussion of laser amplifiers. Thorough explanations, worked examples, and many homework problems make this book essential reading for undergraduates and first-year graduates in science and engineering taking courses on lasers. Researchers will find summaries of key types of lasers, the use of many unique theoretical descriptions, and the extensive bibliography a valuable source of reference for their careers. Contents Preface to the first edition Preface to the second edition Acknowledgements 1. Introduction Part I. Fundamental Wave Properties of Light: 2. Wave nature of light - the interacting of light with materials Part II. Fundamental Quantum Properties of Light: 3. The particle nature of light - discrete...



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