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| 1. Record Nr. | UNINA9911004759803321 |
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| Titolo | Tunable laser optics // Francisco J. Duarte |
| Pubbl/distr/stampa | Amsterdam ; ; Boston, : Elsevier Academic Press, c2003 |
| ISBN | 1-281-03279-4 9786611032791 0-08-054331-6 |
| Descrizione fisica | 1 online resource (287 p.) |
| Disciplina | 621.36/6 |
| Soggetti | Lasers Electrooptics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Front Cover; TUNABLE LASER OPTICS; Copyright Page; Contents; Preface; Chapter 1. Introduction to Lasers; 1.1 Introduction; 1.2 Lasers; 1.3 Excitation Mechanisms and Rate Equations; 1.4 Laser Resonators and Laser Cavities; Problems; References; Chapter 2. Dirac Optics; 2.1 Dirac Notation in Optics; 2.2 Interference; 2.3 Diffraction; 2.4 Refraction; 2.5 Reflection; 2.6 Angular Dispersion; 2.7 Dirac and the Laser; Problems; References; Chapter 3. The Uncertainty Principle in Optics; 3.1 Approximate Derivation of the Uncertainty Principle; 3.2 Applications of the Uncertainty Principle in Optics ProblemsReferences; Chapter 4. The Physics of Multiple-Prism Optics; 4.1 Introduction; 4.2 Generalized Multiple-Prism Dispersion; 4.3 Multiple-Prism Dispersion and Linewidth Narrowing; 4.4 Multiple-Prism Dispersion and Pulse Compression; 4.5 Applications of Multiple-Prism Arrays; Problems; References; Chapter 5. Linear Polarization; 5.1 Maxwell Equations; 5.2 Polarization and Reflection; 5.3 Polarizing Prisms; 5.4 Polarization Rotators; Problems; References; Chapter 6. Laser Beam Propagation Matrices; 6.1 Introduction; 6.2 ABCD Propagation Matrices; 6.3 Higher-Order Matrices; Problems ReferencesChapter 7. Pulsed Narrow-Linewidth Tunable Laser Oscillators; 7.1 Introduction; 7.2 Transverse and Longitudinal Modes; 7.3 Tunable Laser Oscillator Architectures; 7.4 Wavelength-Tuning |

Techniques; 7.5 Polarization Matching; 7.6 Design of Efficient Narrow-Linewidth Tunable Laser Oscillators; 7.7 Narrow-Linewidth Oscillator-Amplifiers; Problems; References; Chapter 8. Nonlinear Optics; 8.1 Introduction; 8.2 Generation of Frequency Harmonics; 8.3 Optical Phase Conjugation; 8.4 Raman Shifting; 8.5 Applications of Nonlinear Optics; Problems; References
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Chapter 12. Physical Constants and Optical Quantities 12.1 Fundamental Physical Constants; 12.2 Conversion Quantities; 12.3 Units of Optical Quantities; 12.4 Dispersion of Optical Materials; 12.5 n/T of Optical Materials; References; Appendix of Laser Dyes; Index

Sommario/riassunto

Chapters will provide self-contained treatment of the topic as much as possible to allow the reader to go directly to the appropriate chapter to deal with a particular topic of concern. This sharp focus is necessary to maintain the emphasis, and to make this a practical reference. The knowledge and experience will integrate aspects of laser oscillators, laser amplifiers, laser systems, engineering of rugged laser cavities, design and engineering of laser-based instrumentation, and design of highly reliable laser systems for material processing applications.*
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