



# Femtosecond Technology

By Kamiya, T. / Saito, F.

Book Condition: New. Publisher/Verlag: Springer, Berlin | From Basic Research to Application Prospects | Recent rapid advances in femtosecond technology have had a great impact on their industrial applications such as: ultrafast optoelectronic devices and optical telecommunication systems, ultrashort-pulse lasers and measurement systems, and the development of novel materials for ultrafast functions. In this book, a wealth of knowledge covering requirements in applications details of recent achievements in important technical areas is presented by world-prominent authors in a concise, systematic form. As a whole, this is the first comprehensive book on the emerging field of femtosecond technology. | I Introduction.- I-1 Femtosecond Technology and Its Industrial Impact.- 1. Introduction.- 2. Fundamental Nature of Femtosecond Optics.- 3. Device and Material Research Frontiers.- 4. Ultrafast System Goals.- 5. Summary and Future Tasks.- References.- II Optoelectronics Technology Roadmap and Industry.- II-1 Technology Roadmap for the Japanese Opto-Electronics Industry.- 1. Introduction.- 2. Roadmap for Optical Communication Technology.- 3. Future Prospects for Optoelectronics Technology in Japan.- 4. Summary and Conclusions.- Acknowledgment.- References.- II-2 Technology Roadmap for Optical Communication - A North American Perspective.- 1. Introduction.- 2. Socioeconomic Driving Forces.- 3. Anticipated Consumer Needs - Bandwidth Requirements.- 4. Core Network.- 5. Access Networks.- 6. LANs and...



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