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George A. Lampropoulos, Roger A. Lessard (Eds.)

Applications of Photonic Technology 2

Communications, Sensing, Materials, and Signal Processing

This book presents a current review of photonic technologies and their applications. The papers published in this book are extended versions of the papers presented at the International Conference on Applications of Photonic Technology (ICAPT'96) held in Montreal, Canada, on July 29 to August 1, 1996. The theme of this event was "Closing the Gap Between Theory, Developments and Applications." The term photonics covers both optics and optical engineering areas of growing scientific and commercial importance throughout the world. It is estimated that photonic technology-related applications will increase exponentially over the next few years and will play a significant role in the global economy by reaching a quarter of a trillion of US dollars by the year 2000. The global interest and advancements of this technology are represented in this book, where leading scientists of twenty-two countries with advanced technology in photonics present their latest results. The papers selected herein are grouped to address six distinct areas of photonic technology. The reader will find throughout the book a combination of invited and contributed papers which reflect the state of the art today and provide some insight about the future of this technology. The first two papers are invited. They discuss business aspects of photonic engineering. One examines if chip-to-chip interconnections by means of optical technology are a good economic choice, while the other discusses the photonic technology from an entrepreneurial viewpoint. Papers related to materials and considered for photonic applications, e.g.

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