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Thin-Film Organic Photonics

By Tetsuzo Yoshimura

Taylor & Francis Inc, 2011. Hardcover. Book Condition: New. 15.6 x 23.5 cm. "This book describes how photonic/electronic properties of thin films can be improved by precise control of atomic and molecular arrangements, and demonstrates the prospect of the artificial materials with atomic/molecular-level tailored structures, especially featuring MLD and conjugated polymers with multiple quantum dots (MQDs) called as polymer MQDs. It also describes other related topics including organic electro-optic materials, optical switches, optical circuits, the selforganized lightwave network (SOLNET), a resource-saving heterogeneous integration process, etc. Some applications of the artificial organic thin films to photonics/ electronics are proposed in the fields of optical interconnects within boxes of computers, optical switching systems, solar energy conversion systems, and bio/medical photonics like the photodynamic therapy. I would like to thank Prof. K. Asama of Tokyo University of Technology for his helpful advice and encouragement, Drs. K. Kiyota, A. Matsuura, T. Hayano, W. Sotoyama, and S. Tatsuura of Fujitsu Laboratories, Ltd., and students who joined Yoshimura Laboratory in Tokyo University of Technology for their collaboration in the research work that contributes to the writing of this book. I would also like to thank colleagues in Fujitsu Computer Packaging Technologies (FCPT), Inc., San Jose, California. Finally,...



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