Organic Field-Effect Transistors (Optical Science and Engineering)

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The remarkable development of organic thin film transistors (OTFTs) has led to their emerging use in active matrix flat-panel displays, radio frequency identification cards, and sensors. Exploring one class of OTFTs, Organic Field-Effect Transistors provides a comprehensive, multidisciplinary survey of the present theory, charge transport studies, synthetic methodology, materials characterization, and current applications of organic field-effect transistors (OFETs).

Covering various aspects of OFETs, the book begins with a theoretical description of charge transport in organic semiconductors at the molecular level. It then discusses the current understanding of charge transport in single-crystal devices, small molecules and oligomers, conjugated polymer devices, and charge injection issues in organic transistors. After describing the design rationales and synthetic methodologies used for organic semiconductors and dielectric materials, the book provides an overview of a variety of characterization techniques used to probe interfacial ordering, microstructure, molecular packing, and orientation crucial to device performance. It also describes the different processing techniques for molecules deposited by vacuum and solution, followed by current technological examples that employ OTFTs in their operation.

Featuring respected contributors from around the world, this thorough, up-to-date volume presents both the theory behind OFETs and the latest applications of this promising technology.

From reader reviews:

Ellen Wirth:

This Organic Field-Effect Transistors (Optical Science and Engineering) book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book is information inside this book incredible fresh, you will get data which is getting deeper an individual read a lot of information you will get. This kind of Organic Field-Effect Transistors (Optical Science and Engineering) without we recognize teach the one who looking at it become critical in considering and analyzing. Don't become worry Organic Field-Effect Transistors (Optical Science and Engineering) can bring when you are and not make your tote space or bookshelves' turn out to be full because you can have it with your lovely laptop even cellphone. This Organic Field-Effect Transistors (Optical Science and Engineering) having excellent arrangement in word and layout, so you will not experience uninterested in reading.

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Jackie Armstrong:

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