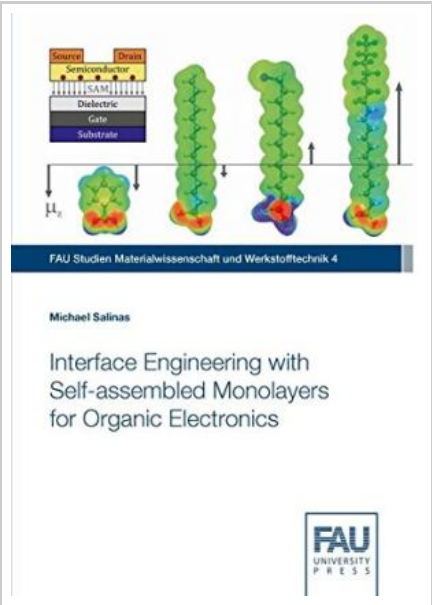

DOWNLOAD

Interface Engineering with Self-assembled Monolayers for Organic Electronics

By Michael Salinas

FAU University Press Aug 2014, 2014. Taschenbuch. Book Condition: Neu. 211x152x12 mm. Neuware - The work presented in this thesis focuses on the impact of densely packed dipolar self assembled monolayers (SAMs) on the electrical characteristics of organic electronic devices. The main achievement was in deducing the relationship between the dipolar character of self-assembled monolayers applied as part of a hybrid dielectric and the switching behavior of organic thin-film transistors (OTFTs). Further important aspects of this work are the general understanding of material properties that contribute to the electrical device characteristics and the estimation of the magnitude of their contribution to specific electrical device parameters. The approach presented in this thesis combines experimental methods applied for the determination of different SAM properties (relative permittivity, layer thickness and packing density) and computational methods applied for the calculation of SAM dipole moments and work functions of organic semiconductors. A model that correlates the threshold voltage shift with the electrostatic potential of a SAM is proposed. The quantitative correlation is supported by the good agreement of calculated values with experimentally determined parameters of the transistors. The change of the charge carrier density in the semiconductor is explained by charge rearrangements induced by the...

READ ONLINE

Reviews

This publication is definitely worth buying. It is writter in straightforward words rather than difficult to understand. You are going to like how the writer compose this publication.

-- ***Dr. Joaquin Klein***

This book is really gripping and fascinating. I was able to comprehended every little thing out of this published e pdf. Your life span will likely be transform when you full looking at this ebook.

-- ***Mrs. Heaven Schmeler***

Relevant PDFs

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...

Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...

The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has...

Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal your information, or plant a virus Have...

Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How can inclusive early educators plan and deliver...