

Flexible Electronics: Materials and Applications (Electronic Materials: Science & Technology)

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This excellent volume covers a range of materials used for flexible electronics, including semiconductors, dielectrics, and metals. The functional integration of these different materials is treated as well. Fundamental issues for both organic and inorganic materials systems are included. A corresponding overview of technological applications, based on each materials system, is presented to give both the non-specialist and the researcher in the field relevant information on the status of the flexible electronics area.

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Editorial Review

From the Back Cover

Flexible Electronics: Materials and Applications surveys the materials systems and processes that are used to fabricate devices that can be employed in a wide variety of applications, including flexible flat-panel displays, medical image sensors, photovoltaics, and electronic paper. Materials discussed range from polymeric semiconductors to nanotube transparent conductors, and the important characteristics of each system and their target applications are highlighted. An overview of the performance benchmarks for the different materials is given in order to allow a direct comparison of these different technologies. Furthermore, the devices and processes most suitable for given applications in flexible electronics are identified.

Topics include:

- An overview and history of flexible electronics
- Low-temperature processing and device integration on flexible substrates
- Solution-processable thin-film electronic devices and their properties
- Materials and device physics relevant to flexible electronics
- Mechanical and electrical characteristics of nano-scale materials on flexible platforms
- Printing and roll-to-roll processing for large-area electronics manufacturing
- Applications towards flexible displays, sensors, actuators, photovoltaics, radio-frequency identification, and micro-electro-mechanical systems

Written by leading researchers in the field, ***Flexible Electronics: Materials and Applications*** serves as a reference for researchers, engineers, and students interested in the characteristics, capabilities, and limitations of these exciting materials and emerging applications.

About the Author

William Wong received his B.S. from the University of California, Los Angeles, in 1990, his M.S. from the University of California, San Diego, in 1995 and his Ph.D. from the University of California, Berkeley, in 1999. He was an associated research engineer for Siemens Solar Industries in Camarillo, CA, form 1990-1992. Since 2000, he has been a senior member of the research staff at the Palo Alto Research Center.

Alberto Salleo received his physics degree in 1994 from Ecole Polytechnique in France; his M.S. from the University of California, Berkeley in 1998; and his Ph.D. from the University of California, Berkeley, in 2001. He has held several positions such as visiting scholar and graduate student researcher and currently is a researcher in the Electronic Materials Laboratory at the Palo Alto Research Center. In January, 2006, he will become an Assistant Professor for the Department of Materials Science and Engineering at Stanford University.

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