



Handbook of Thiophene-Based Materials: Applications in Organic Electronics and Photonics, 2 Volume Set

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This essential resource consists of a series of critical reviews written by leading scientists, summarising the progress in the field of conjugated thiophene materials. It is an application-oriented book, giving a chemists' point of view on the state-of-art and perspectives of the field. While presenting a comprehensive coverage of thiophene-based materials and related applications, the aim is to show how the rational molecular design of materials can bring a new breadth to known device applications or even aid the development of novel application concepts. The main topics covered include synthetic methodologies to thiophene-based materials (including the chemistry of thiophene, preparation of oligomers and polymerisation approaches) and the structure and physical properties of oligo- and polythiophenes (discussion of structural effects on electronic and optical properties). Part of the book is devoted to the optical and semiconducting properties of conjugated thiophene materials for electronics and photonics, and the role of thiophene-based materials in nanotechnology.

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