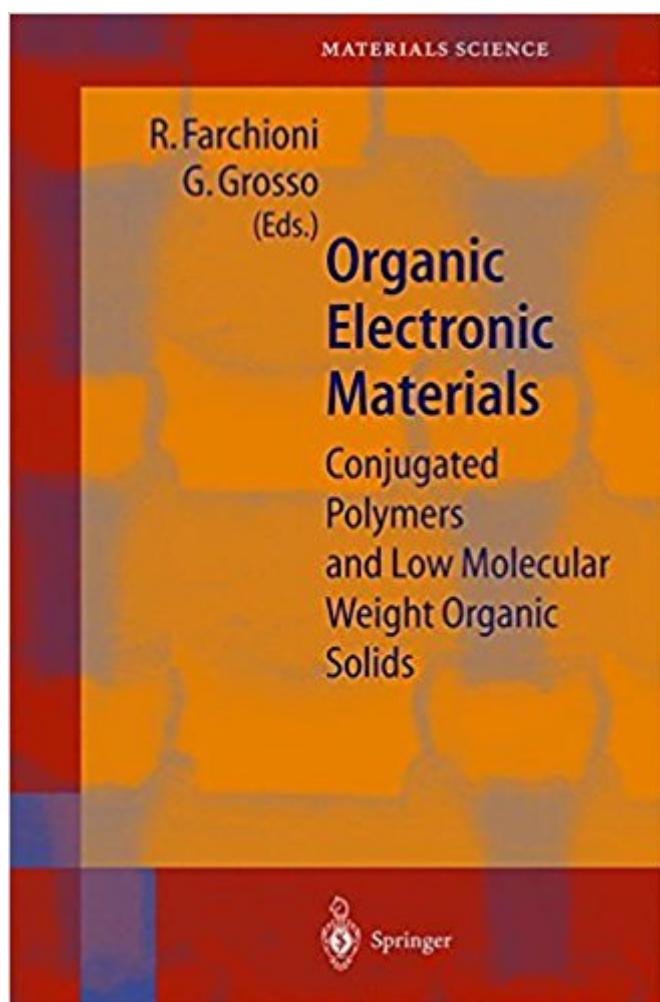


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Organic Electronic Materials: Conjugated Polymers And Low Molecular Weight Organic Solids (Springer Series In Materials Science)



Synopsis

This book brings together selected contributions both on the fundamental information on the physics and chemistry of these materials, new physical ideas and decisive experiments. It constitutes both an insightful treatise and a handy reference for specialists and graduate students working in solid state physics and chemistry, material science and related fields.

Book Information

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Customer Reviews

From the reviews: "The aim of the book is to make accessible the basic physics and chemistry of organic materials relevant to a study of the electronic and optical properties of organic materials at a postgraduate or research level. | the chapters are well supplied with literature references - several have more than 100 and chapter 4 tops the list at 186. | the chapters are all interesting and uniformly readable." (Prof. Richard Tilley, Materials World, Vol. 10 (5), 2002) "This is a contributed book | on Organic Electronic Materials written by leading scientists in the field. | The chapters are in general very well written and provide a nice and clear introduction and a timely review of the research in this important field. It is to be recommended to all scientists working in the field of | plastic electronics." (Jean-Marie Andre, Pysicalia, Vol. 38 (2), 2002) "This book is a collection of reviews on the phenomena relevant to the electronic and optical properties of organic materials. | the review topics have been well-chosen and cover a broad area of research, both experimental and theoretical. | Overall, this is an excellent book that will be a useful resource to expert

researchers and to non-experts who wish to learn more about this fascinating, and rapidly developing, research area." (P. C. Dastoor, *The Physicist*, Vol. 38 (6), 2001)

Studies on the electronic properties of conjugated polymers and low molecular weight organic solids have been of increasing interest in recent years. This book is organized into two parts dedicated to these two classes of materials. For each part a general introductory review provides background knowledge of the language and of the main points required for understanding the book's contents. The reviews that follow provide a more complete understanding of the underlying physics of the materials through discussion of the interconnected topics. Theoretical concepts, models and methods are overviewed; this is used to support the explanation of the physical and chemical properties of these materials. The presentation of selected aspects of experimental research greatly contributes to the basic understanding of organic electronic materials.

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