

<<先进功能材料>>

图书基本信息

书名：<<先进功能材料>>

13位ISBN编号：9787308081665

10位ISBN编号：7308081664

出版时间：2011-3

出版时间：禹熙权 浙江大学出版社 (2011-03出版)

作者：禹熙权

页数：227

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内容概要

With recent developments in the polymer , ceramic , sensor , and fuel cell technology , a range of novel materials have been manufactured for advanced , compact , and electronic industry. Polymers , silicon , energy materials have received much attention in recent years. Advanced Functional Materials gives the most recent research results on polymer , fine ceramics , sensor , and green fuel cells. The content of this book , mainly based on the authors' recent research results , covers a broad spectrum including : the advanced inorganic-organic-hybrid polymeric materials , high functional sensor , and microbial fuel cells. The book is suitable for the researchers working in the areas of polymer , nanotechnology , ceramic engineering , engineering thermoplastic , energy and power engineering , chemical engineering and materials , etc.

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There are great interests in six advanced technologies: nano-technology, bio-based technology, sensor technology, energy-based technology, high performance material-based technology, and fuel cell technology. During the past decades major progress in the synthesis, characterization, and applications of functional polymers has been accomplished along with the recent development of nano-bioscience and environment technology. This monograph titled Advanced Functional Materials contains six chapters spanning from polymers to ceramics, sensor, and to fuel cell: high performance organic polymers, biodegradable organic polymers, inorganic polymers, ceramic composite formation, sensor, and fuel cell.

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