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Polymers: Chemistry and Physics of Modern Materials Cowie,1973 Physics of Modern Materials International centre for theoretical physics, International atomic energy agency,1980 Physics and Engineering of New Materials Do Tran Cat, Annemarie Pucci, Klaus Rainer Wandelt,2009-01-01 This book presents the majority of the contributions to the Tenth German Vietnamese Seminar on Physics and Engineering GVS10 that took place in the Gustav Stresemann Institut GSI in Bonn from June 6 to June 9 2007 In the focus of these studies are the preparation and basic properties of new material systems related investigation methods and practical applications Accordingly the sections in this book are entitled electrons transport and confinement low dimensional systems magnetism oxidic materials organic films new materials and methods The series of German Vietnamese seminars was initiated and sponsored by the Gottlieb Daimler and Karl Benz Foundation since 1998 and took place alt nately in both countries These bilateral meetings brought together top notch senior and junior

Vietnamese scientists with German Scientists and stimulated many contacts and co operations Under the general title Physics and Engine ing the programs covered in the form of keynote lectures oral presentations and posters experimental and theoretical cutting edge material physics oriented topics. The majority of the contributions was dealing with modern topics of material science particularly nanoscience which is a research field of high importance also in Vietnam Modern material science allows a quick transfer of research results to technical applications which is very useful for fast developing countries like Vietnam On the other hand the seminars took profit from the strong cro fertilization of the different disciplines of physics This book is dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached Nanopolymers and Modern Materials Oleg V. Stoyanov, A. K. Haghi, Gennady Efremovich Zaikov, 2013-09-25 This book reports on new methodologies and important applications in the field of nanopolymers as well as includes the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and chemical engineering The book provides an overview of the field explains the basic underlying theory and gives numerous comparisons of different methods. The new topics covered in this book will be an excellent resource for industries and academic researchers as well **Electronic Materials** James R. Chelikowsky, Alfonso Franciosi, 2012-12-06 Modem materials science is exploiting novel tools of solid state physics and chemistry to obtain an unprecedented understanding of the structure of matter at the atomic level The direct outcome of this understanding is the ability to design and fabricate new materials whose properties are tailored to a given device application Although applications of materials science can range from low weight high strength composites for the automobile and aviation industry to biocompat ible polymers in no other field has progress been more strikingly rapid than in that of electronic materials. In this area it is now possible to predict from first principles the properties of hypothetical materials and to construct artificially structured materials with layer by Iayer control of composition and microstruc ture The resulting superlattices multiple quantum wells and high temperature superconductors among others will dominate our technological future A large fraction of the current undergraduate and graduate students in science and engi neering will be directly involved in furthering the revolution in electronic mate rials With this book we want to welcome such students to electronic materials research and provide them with an introduction to this exciting and rapidly developing area of study A second purpose of this volume is to provide experts in other fields of solid state physics and chemistry with an overview of contemporary research within the field of electronic materials

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