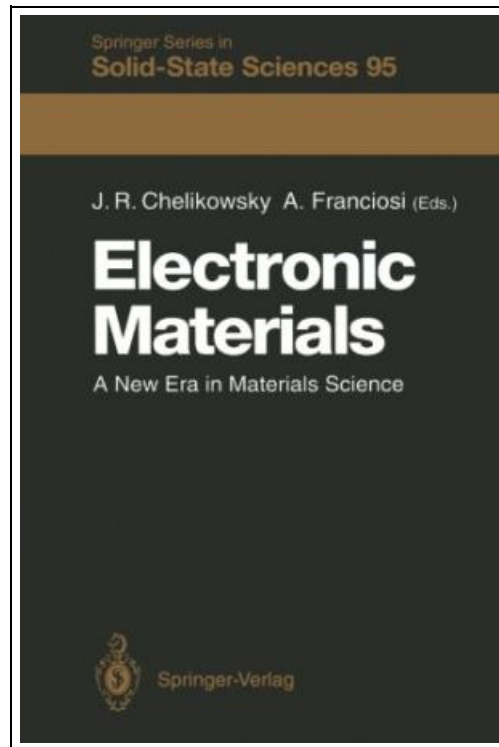


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ELECTRONIC MATERIALS: A NEW ERA IN MATERIALS SCIENCE



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Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2011. Paperback. Book Condition: New. 231 x 135 mm. Language: English . Brand New Book ***** Print on Demand *****.Modern 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 biocompatible 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-layer control of composition and microstructure. 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 engineering will be directly involved in furthering the revolution in electronic materials. 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. Softcover reprint of the original 1st ed. 1991.



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