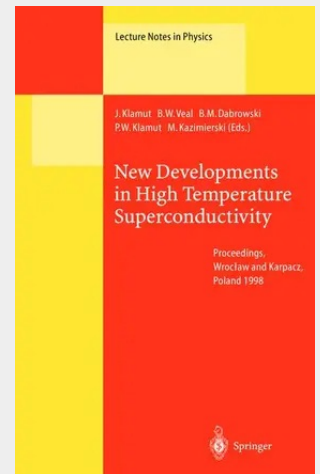


New Developments in High Temperature Superconductivity

Proceedings of the 2nd Polish-US Conference Held at Wroclaw and Karpacz, Poland, 17–21 August 1998

This volume contains the proceedings of The Second Polish-US Conference on High Temperature Superconductivity which was held August 18–21, 1998 in Karpacz, Poland. The conference followed The First Polish-US Conference on High Temperature Superconductivity organized in 1995, proceedings of which were published by Springer-Verlag in 1996 (Recent Developments in High Temperature Superconductivity, Lecture Notes in Physics 475). High Temperature Superconductivity (HTSC) in complex copper oxides has become a household name after twelve years of intense research following its discovery in 1986 by J. G. Bednorz and K. A. Müller. Because of the rapid growth of the HTSC field, there is a need for periodic summary and condensation both for scientists working in the field and, especially, for young researchers entering the field of oxide materials. Following the First Conference, it was recognized that an extended format of lectures perfectly satisfied that need, providing adequate time for experts from the international community to fully introduce and develop complex ideas. Thus, the format of the Second Conference brought together by cooperating scientists from the Institute of Low Temperature and Structure Research of the Polish Academy of Science at Wrocław, Northern Illinois University, and Argonne National Laboratory remained mostly unchanged. Again, we were delighted to receive enthusiastic responses from distinguished US and Polish scientists who were invited to participate.

This volume presents the latest developments in the field of high temperature superconductivity. It focusses on microscope description, physical properties, and materials and applications. The talks presented have been extensively edited and updated in order to present a valuable resource not only for the advanced reader, but also for a larger readership seeking reviews of current problems in high temperature superconductivity. These proceedings are a follow-up of a previous meeting which has been published as Volume 475 of the Lecture Notes in Physics.



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