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High-Temperature Ordered Intermetallic Alloys IX

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High Temperature Ordered Intermetallic A

**C. C. Koch, C. T. Liu, N. S. Stoloff, A. I.
Taub**



High Temperature Ordered Intermetallic A:

High-temperature Ordered Intermetallic Alloys C. C. Koch, Chain Tsuan Liu, N. S. Stoloff, 1985 **High-Temperature Ordered Intermetallic Alloys** Materials Research Society Staff, *High-temperature Ordered Intermetallic Alloys IV* Lyman A. Johnson, 1991 **High-temperature Ordered Intermetallic Alloys**, 1997 *High-temperature Ordered Intermetallic Alloys*, 2001 **High Temperature Aluminides and Intermetallics** S.H. Whang, D.P. Pope, C.T. Liu, 2013-10-22 This volume of proceedings is concerned with an increasingly important area that of intermetallics and high temperature aluminides which has recently been attracting a great deal of attention Nearly 150 papers presented at the meeting held in San Diego in September 1991 are reproduced here They cover a wide range of related topics such as the bonding characteristic and alloying behaviour of TiAl intermetallic compounds and the cleavage fracture of ordered intermetallic alloys All the papers have been reviewed according to the standards set by Materials Science and Engineering This book will be of interest to metallurgists and materials scientists working with composites who are interested in the latest developments in this fast moving field High-temperature ordered intermetallic alloys Symposium on High-Temperature Ordered Intermetallic Alloys, 1991 *High-temperature ordered intermetallic alloys* Symposium on High-Temperature Ordered Intermetallic Alloys, 1993 High-temperature Ordered Intermetallic Alloys IX Joachim H. Schneibel, 2001

High-Temperature Ordered Intermetallic Alloys VI Book 2 Part Set: Volume 364 Joe Horton, 1995-04-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

High-Temperature Ordered Intermetallic Alloys VII: Volume 460 C. C. Koch, 1997-07-30 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book focuses specifically on processing and microstructural control alloy design mechanical properties and industrial applications Examples of structural applications of the mature intermetallics TiAl and Ni₃Al are also featured **Ordered Intermetallics** C.T. Liu, R.W. Cahn, G. Sauthoff, 2012-12-06 Ordered intermetallics constitute a unique class of metallic materials which may be developed as new generation materials for structural use at high temperatures in hostile environments At present there is a worldwide interest in intermetallics and extensive efforts have been devoted to intermetallic research and development in the U S Japan European countries and other nations As a result significant advances have been made in all areas of intermetallic research This NATO Advanced Workshop on ordered intermetallics 1 reviews the recent progress and 2 assesses the future direction of intermetallic research in the areas of electronic structure and phase stability deformation and fracture and high temperature properties The book is divided into six parts 1 Electronic Structure and Phase Stability 2 Deformation and Dislocation Structures 3 Ductility and Fracture 4 Kinetic Processes and Creep Behavior 5 Research Programs and Highlights and 6 Assessment of Current Research and Recommendation for Future Work The first four parts review the recent advances in the three focus areas The fifth part provides highlights of the intermetallic research under major programs and in different

institutes and countries The last part provides a forum for the discussion of research areas for future studies

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Structural Intermetallics and Intermetallic Matrix Composites Rahul Mitra,2015-04-28 Fills a Prominent Gap in a Significant Area of IntermetallicsPresenting a comprehensive overview of structural intermetallics the most important class of intermetallics Structural Intermetallics and Intermetallic Matrix Composites is a reference written with the beginning student as well as the practicing professional in mind Utilizing the auth

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High-temperature Ordered Intermetallic Alloys ,1987 **Physical Metallurgy and processing of Intermetallic Compounds** N.S. Stoloff,V.K. Sikka,2012-12-06 The attractive physical and mechanical properties of ordered intermetallic alloys have been recognized since early in this century However periodic attempts to develop intermetallics for structural applications were unsuccessful due in major part to the twin handicaps of inadequate low temperature ductility or toughness together with poor elevated temperature creep strength The discovery in 1979 by Aoki and Izumi in Japan that small additions of boron caused a dramatic improvement in the ductility of Ni₃Al was a major factor in launching a new wave of fundamental and applied research on intermetallics Another important factor was the issuance in 1984 of a National Materials Advisory Board report entitled Structural Uses for Ductile Ordered Alloys which identified numerous potential defense related applications and proposed the launching of a coordinated development program to gather engineering property and processing data A substantial research effort on titanium aluminides was already underway at the Air Force Materials Laboratory at Wright Patterson Air Force Base in Ohio and with Air Force support at several industrial and university laboratories Smaller programs also were under way at Oak Ridge National Laboratory under Department of Energy sponsorship These research efforts were soon augmented in the United States by funding from Department of Defense agencies such as Office of Naval Research and Air Force Office of Scientific Research and by the National Science Foundation

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