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Sintering (Monographs in powder science and technology)

Waldron, M.B.

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includes traditional fabrication routes as well as new and emerging approaches in order to meet the increasing demand for more reliable ceramic materials. *Ceramics and Composites Processing Methods* is divided into three sections: Densification covering the fundamentals and practice of sintering; pulsed electric current sintering and viscous phase silicate processing; Chemical Methods examining colloidal methods, sol-gel, gel casting, polymer processing, chemical vapor deposition, chemical vapor infiltration, reactive melt infiltration, and combustion synthesis; Physical Methods including directional solidification, solid free form fabrication, microwave processing, electrophoretic deposition, and plasma spraying. Each chapter focuses on a particular processing method or approach. Collectively, these chapters offer readers comprehensive state-of-the-science information on the many approaches, techniques, and methods for the processing and fabrication of advanced ceramics and ceramic composites. With its coverage of the latest processing methods, *Ceramics and Composites Processing Methods* is recommended for researchers and students in ceramics materials science, structural materials, biomedical engineering, and nanotechnology.

Subject Catalog Library of Congress, 1982 **The British Library General Catalogue of Printed Books 1976 to 1982** British Library, 1983 **Nuclear Science Abstracts**, 1972 *Beryllium Chemistry and Processing* Kenneth A. Walsh, 2009-01-01. This book introduces beryllium, its history, its chemical, mechanical, and physical properties, including nuclear properties. The 29 chapters include the mineralogy of beryllium and the preferred global sources of ore bodies. The identification and specifics of the industrial metallurgical processes used to form oxide from the ore and then metal from the oxide are thoroughly described. The special features of beryllium chemistry are introduced, including analytical chemical practices. Beryllium compounds of industrial interest are identified and discussed. Alloying, casting, powder processing, forming, metal removal, joining, and other manufacturing processes are covered. The effect of composition and process on the mechanical and physical properties of beryllium alloys assists the reader in material selection. The physical metallurgy chapter brings conformity between chemical and physical metallurgical processing of beryllium metal alloys and compounds. The environmental degradation of beryllium and its alloys, both in aqueous and high temperature conditions, are presented. The health and environmental issues are thoroughly presented, the current requirements, and established practices for handling beryllium in the workplace are available. A thorough list of references will assist the user of this book.

Physical Metallurgy R.W. Cahn, P. Haasen, 1996-02-09. This is the fourth edition of a work which first appeared in 1965. The first edition had approximately one thousand pages in a single volume. This latest volume has almost three thousand pages in 3 volumes, which is a fair measure of the pace at which the discipline of physical metallurgy has grown in the intervening 30 years. Almost all the topics previously treated are still in evidence in this version, which is approximately 50% bigger than the previous edition. All the chapters have been either totally rewritten by new authors or thoroughly revised and expanded, either by the third edition authors alone or jointly with new co-authors. Three chapters on new topics have been added, dealing with dry corrosion, oxidation, and protection of metal surfaces; the dislocation theory of the mechanical behavior

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□□ □□□□□□ (Japan), 1900 *S.C.I. Monograph* Society of Chemical Industry (Great Britain), 1961 **Nuclear Science and Technology, a Selective Bibliography** U.S. Atomic Energy Commission, 1958 **NBS Monograph** United States. National Bureau of Standards, 1968 *Nanocrystal* Yoshitake Masuda, 2011-06-28 We focused on cutting edge science and technology of Nanocrystals in this book Nanocrystal is expected to lead to the creation of new materials with revolutionary properties and functions It will open up fresh possibilities for the solution to the environmental problems and energy problems We wish that this book contributes to bequeath a beautiful environment and valuable resources to subsequent generations

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