

are scattered throughout the book, but are concentrated on the descriptive sections, and in particular include expansion of the chapter on synthetic gemstones to take into account new developments in this rapidly expanding field, and an interesting complete re-write of the chapter on the origin of diamonds. The colour drawings of previous editions have been replaced by 12 sharp colour photographs of groupings of cut and uncut stones, in which the colour reproduction is, in general, good.

The ecological niche of this book lies nearer to Webster's treatise *Gems* than to the current popular illustrated accounts. In the preface the author and reviser indicate an aim at those engaged in the jewellery trade as well as at general readers. Approximately half the book is devoted to historical, technical and scientific introductions to the subject, including a little elementary crystallography, crystal structure and bonding, and a useful section devoted to data tables. The other half of the book is a descriptive account of a pretty comprehensive range of gem species.

Errors are not common, having been largely ironed out over the years. The reviewer doubts that the bonding in most gemstones is ionic (p. 30), a considerable degree of covalent character being required for the high hardness necessary for most gem uses. The table on p. 85 seems a little peculiar, being entitled "Radiation ranges (in millimetres)" — the author uses Å units and the term "wavelength" in the comparable table on the next page. In methylene iodide, iodine forms a true solution, not a colloidal suspension (p. 113). The name "vorobyevite" is applied nowadays specifically to caesian beryl, whatever its colour (p. 303). Uvarovite is described (p. 338) as never having been found in pieces large enough for cutting. Relatively large (>1 cm) uvarovite crystals have been known for some years from Gussokumpu mine, in Finland,

and a few of these have been cut. The formulae on pp. 518–519 horrify an organic chemist! Confusion reigns between the monomers and their polymers. Vinyl acetate is $\text{CH}_2=\text{CH}.\text{O}.\text{CO}.\text{CH}_3$, hence polyvinyl acetate is $[-\text{CH}_2-\text{CH}(\text{O}.\text{CO}.\text{CH}_3)-]_n$. Styrene (vinyl benzene) is $\text{CH}_2=\text{CH}.\text{C}_6\text{H}_5$, hence polystyrene is $[-\text{CH}_2-\text{CH}(\text{C}_6\text{H}_5)-]_n$. Acetylene is $\text{CH}\equiv\text{CH}$, and ethylene is $\text{CH}_2=\text{CH}_2$. Acrylic acid is $\text{CH}_2=\text{CH}.\text{CO}.\text{OH}$, methacrylic acid is $\text{CH}_2=\text{C}(\text{CH}_3).\text{CO}.\text{OH}$, methyl methacrylate (a liquid monomer) is $\text{CH}_2=\text{C}(\text{CH}_3).\text{CO}.\text{OCH}_3$ and its glassy polymer is $[-\text{CH}_2-\text{C}(\text{CH}_3)(\text{CO}.\text{OCH}_3)-]_n$.

The book seems a little expensive, but is a useful reference work, as well as a readable armchair account of the subject.

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Books Received

The following books have been received by the Editor. Brief and generally uncritical notices are given of works of marginal crystallographic interest; obviously a book of fundamental interest is included under this heading because of difficulty in finding a suitable reviewer without great delay.

Sintering and related phenomena—Materials Science Research Series, Vol. 6. Edited by G. C. Kuczynski. Pp. xii+451, Figs. 172, Tables 18. New York: Plenum Press, 1973. Price \$29.00.

Exploring experimental and theoretical approaches to sintering and related phenomena, the book focuses on recent

chemical and physical insights into this industrially important process. Of particular note is the chapter by A. J. Markworth and W. Oldfield discussing computer simulation in the study of pore behaviour in solids. Leading authorities in the field deal with: point defects and transport phenomena; grain growth and Ostwald ripening; application of models to actual compacts in sintering; application of sintering phenomena.

The book is the proceedings of the Third International Conference on Sintering and Related Phenomena, held at the University of Notre Dame, Indiana, June 5–7, 1972.

Theory of metasomatic zoning. By D. S. KORZINSKI. Pp. 162, Figs. 45. Oxford Univ. Press, 1970. Price £3.00.

The author derives systems of differential equations for infiltration and diffusion metasomatic zoning and uses them to study the main features of these processes. The signs that distinguish between infiltration and diffusion formations are examined. Various cases of infiltration and diffusion metasomatism are considered, and a theory of bimetasomatism is developed. The author discusses metasomatism without a temperature gradient and infiltration metasomatism with fall of temperature along the solution stream; particular attention is paid to a mathematical model for a stream with a wave of acid components. Computations are given for diffusion metasomatism to show that temperature gradients in zones of diffusion of material cannot be appreciable. The presentation of theoretical aspects is accompanied by reference to geological examples, and conclusions are drawn concerning the geological significance of the proposed theory.

This book was first published in Russian by Science Press, Moscow, in 1969.

Sintering And Related Phenomena

**George Czeslaw Kuczynski, Norris A.
Hooton, Charles F. Gibbon**



Sintering And Related Phenomena:

Sintering and Related Phenomena George Czeslaw Kuczynski, Norris A. Hooton, Charles F. Gibbon, 1967 **Sintering and Related Phenomena** G. Kuczynski, 2012-12-06 In this volume there is set forth the text of the Proceedings of the Third International Conference on Sintering and Related Phenomena which conference was held at the University of Notre Dame on June 5 7 1972 This conference was the seventh in the series of University Conferences on Ceramic Science organized yearly by a happy confederation of four institutions North Carolina State University Raleigh North Carolina the University of California Berkeley California Alfred University Alfred New York and the University of Notre Dame Notre Dame Indiana The 1972 Conference at Notre Dame was devoted to problems of sintering and allied phenomena Previous gatherings at Notre Dame took place in 1954 and 1965 The proceedings of the first Notre Dame Conference were not published by reason of the conviction that a free forum similar in spirit to the Gordon Conferences should prevail However discussions of the second Conference were preserved for posterity in a rather substantial volume 894 pp published by Gordon and Breach in 1967 As the spirit of free exchange of ideas was not diminished by threat of publication of the revelations of the second Notre Dame Conference we deemed it just that the 1972 Proceedings be made public Thus the present volume is a report upon progress realized in our science during the past six years **Sintering and Related Phenomena** G. Kuczynski, 2012-12-01 In this volume there is set forth the text of the Proceedings of the Third International Conference on Sintering and Related Phenomena which conference was held at the University of Notre Dame on June 5 7 1972 This conference was the seventh in the series of University Conferences on Ceramic Science organized yearly by a happy confederation of four institutions North Carolina State University Raleigh North Carolina the University of California Berkeley California Alfred University Alfred New York and the University of Notre Dame Notre Dame Indiana The 1972 Conference at Notre Dame was devoted to problems of sintering and allied phenomena Previous gatherings at Notre Dame took place in 1954 and 1965 The proceedings of the first Notre Dame Conference were not published by reason of the conviction that a free forum similar in spirit to the Gordon Conferences should prevail However discussions of the second Conference were preserved for posterity in a rather substantial volume 894 pp published by Gordon and Breach in 1967 As the spirit of free exchange of ideas was not diminished by threat of publication of the revelations of the second Notre Dame Conference we deemed it just that the 1972 Proceedings be made public Thus the present volume is a report upon progress realized in our science during the past six years **Sintering and Related Phenomena** International Conference on Sintering and Related Phenomena (3d : 1972 : University of Notre Dame), 2000 **Sintering and Catalysis** International Conference on Sintering and Related Phenomena (4th : 1975 : University of Notre Dame), 2000 **Sintering and Related Phenomena** Kuczynski G. C., 1972 Sintering and Related Phenomena , 1973 Sintering and Related Phenomena G. C. Kuczynski, N. A. Hooton, C. F. Gibbon, 1967 **Sintering and Heterogeneous Catalysis** George Czeslaw Kuczynski, Albert E. Miller, Gordon A. Sargent, 1984

Sintering and related phenomena ; proceedings of the international conference held in June 1965 at the University of Notre Dame George Czeslaw Kuczynski,1967 **Sintering and Related Phenomena , Proceedings of the International Conference, Notre Dame, IN, June 1965** ,1967 *Sintering and Related Phenomena* George Czeslaw Kuczynski,Norton A. Hooton,Charles F. Gibbon,1967 *Sintering and Heterogeneous Catalysis* G. Kuczynski,1984-08-01 The Sixth International Conference on Sintering and Related Phenomena took place at the University of Notre Dame Notre Dame Indiana June 6 8 1983 This conference was also the twentieth Conference on Ceramic Sciences organized yearly by a confederation of four institutions North Carolina University at Raleigh N C the University of California at Berkeley CA Alfred University at Alfred NY and the University of Notre Dame Notre Dame IN The papers presented at the last Notre Dame conference collected in this volume reflect the progress in our understanding of the process of sintering achieved in the past four years It seems that the analysis of the two particle models is finally extended to the analysis of the models of compacts In these investigations strong emphasis is put on pore grain boundaries interaction which appear to be central to this problem It is to be hoped that in the near future an adequate model of the compact will be developed which may serve as a useful basis of powder technology Also the effects of atmosphere on the sintering of ceramics after a long period of neglect seem to attract the attention of more workers in the field **Sintering and Related Phenomena** George C. Kuczynski,1973 **Materials Science Research.** G. C. Kuczynski,1973 SINTERING AND RELATED PHENOMENA-PROCEEDINGS- 2ND INTERNATIONAL CONFERENCE WHICH FORMED THE 2ND UNIVERSITY CONFERENCE ON CERAMIC SCIENCE. , Sintering processes George C. Kuczynski,1980 Sintering and Related Phenomena G. C. Kuczynski,N. A. Hooton,C. F. Gibbon,1968-02 Modern Ceramic Engineering David Richerson,David W. Richerson,William Edward Lee,2005-11-04 Ceramic materials have proven increasingly important in industry and in the fields of electronics communications optics transportation medicine energy conversion and pollution control aerospace construction and recreation Professionals in these fields often require an improved understanding of the specific ceramics materials they are using *Modern Ceramic Engineering Third Edition* helps provide this by introducing the interrelationships between the structure properties processing design concepts and applications of advanced ceramics This student friendly textbook effectively links fundamentals and fabrication requirements to a wide range of interesting engineering application examples A follow up to our best selling second edition the new edition now includes the latest and most important technological advances in the field The author emphasizes how ceramics differ from metals and organics and encourages the application of this knowledge for optimal materials selection and design New topics discuss the definition of ceramics the combinations of properties fulfilled by ceramics the evolution of ceramics applications and their importance in modern civilization A new chapter provides a well illustrated review of the latest applications using ceramics and discusses the design requirements that the ceramics must satisfy for each application The book also updates its chapter on ceramic matrix composites and adds

a new section on statistical process control to the chapter on quality assurance Modern Ceramic Engineering Third Edition offers a complete and authoritative introduction and reference to the definition history structure processing and design of ceramics for students and engineers using ceramics in a wide array of industries **Encyclopedia of Chemical Physics and Physical Chemistry: Applications** Nicholas D. Spencer, John H. Moore, 2001

Eventually, you will certainly discover a further experience and finishing by spending more cash. yet when? attain you say you will that you require to acquire those all needs behind having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will guide you to comprehend even more in this area the globe, experience, some places, past history, amusement, and a lot more?

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