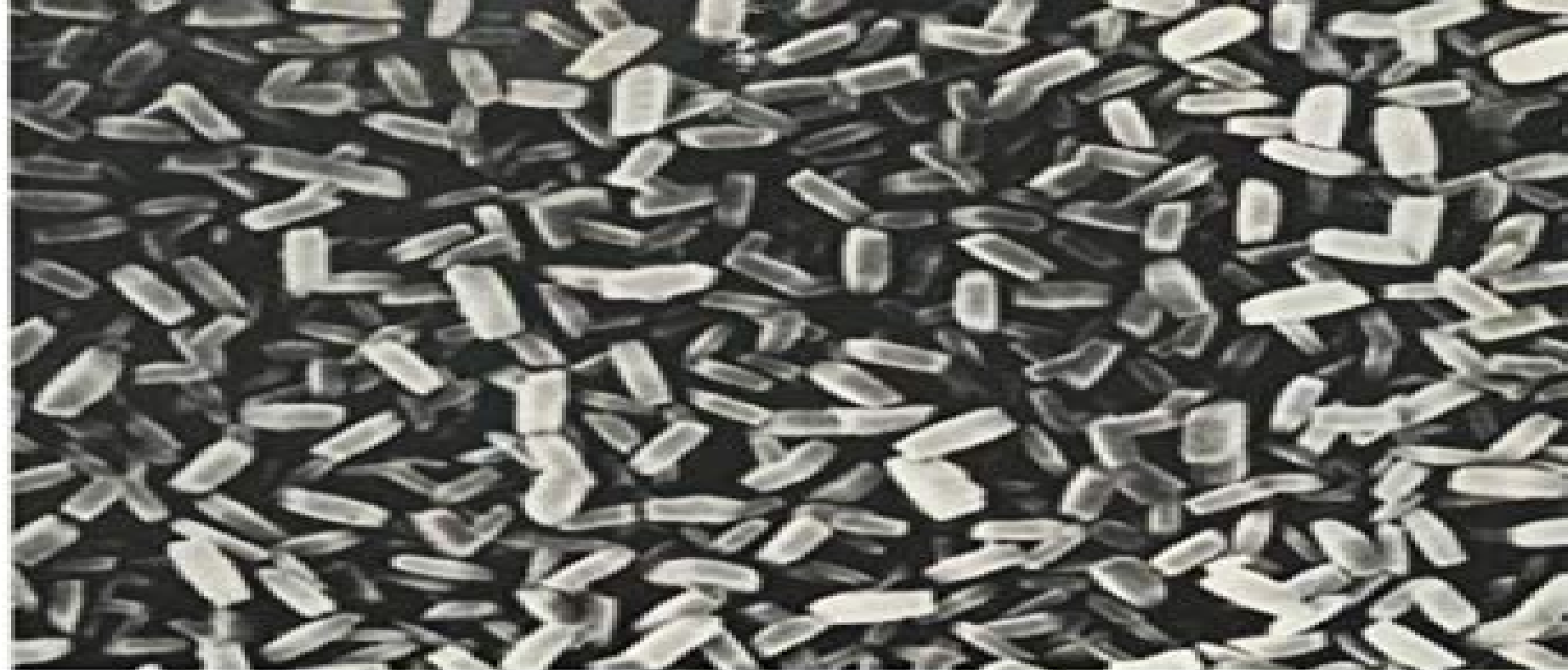




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MATERIALS SCIENCE RESEARCH
Volume 18

**Edited by G.C. Kuczynski,
Albert E. Miller, and Gordon A. Sargent**

Sintering And Heterogeneous Catalysis

G. Kuczynski



Sintering And Heterogeneous Catalysis:

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Kuczynski, 2012-12-06 The proceedings of the 4th International Conference on Sintering and Related Phenomena contained in this volume have been broadened in scope to include the phenomena of sintering and coalescence of catalytic materials dispersed upon refractory oxides For it has long been recognized within the circles of chemists and chemical engineers working in the field of catalysis that one of the chief causes of the decline in heterogeneous catalytic activity and or selectivity is indeed sintering or perhaps using a better term coalescence of the supported catalytic metal and compounds thereof Essentially catalytic deactivation by sintering is now well recognized as Ostwald ripening which of course is a phenomenon familiar to scientists grappling with the problem of sintering of powder compacts The 4th Conference at Notre Dame marks the first occasion at which scientists and engineers of each discipline were assembled in the same room to exchange views on these phenomena of mutual concern In the wake of the Conference at Notre Dame all parties acknowledged the synergistic benefit which issued from this exchange both at the formal and informal level All were persuaded that signal benefits will be realized by a continuation of this collaboration in the form of future sintering conferences in which both powder metallurgists and catalytic scientists and engineers would participate 17th Annual Conference on Composites and Advanced Ceramic Materials, Part 2 of 2, Volume 14, Issue 9/10 John B.

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