



Handbook of Ceramics Grinding & Polishing (Materials Science and Process Technology)

By Hans Kurt Tonshoff, Ichiro Inasaki, Ioan D. Marinescu

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Focusing on the machining of ceramic materials such as silicon nitride, silicon carbide, and zirconia, this handbook meets the growing need in industry for a clear understanding of modern improvements in ceramic processing. The presentation is international in scope, with techniques and information represented from the USA, Japan, Germany, and the United Kingdom—countries that have made important contributions to the field. The 20 expert chapter authors explore the challenge of reducing the costs of machining operations, a continuing problem in an industry where ceramic parts must be machined into final form to achieve a proper fit.

The handbook reveals that the abrasive machining of ceramic materials will always be a requirement because of the difficulty of controlling parts dimensions at the high temperatures required in their creation. The contributors then explain the properties and characteristics of ceramics, the various types of abrasive processes, and typical tests used in the procedures. An entire section of the handbook concerns grinding tools, their conditioning, lubrication, and cooling, checking for wear on the tools, and using them efficiently. The book also examines modern honing and superfinishing tools and machines, and describes advances in the technology, as well as lapping and polishing techniques using chemical compounds and ultrasound.

Ceramics is a field where more advanced products are sure to appear. Many of the products will require advanced, better-controlled processing technologies; vastly improved productivity in manufacturing; and increased product reliability. The contributors to this Handbook will assist readers in the attainment of these important goals.

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Editorial Review

About the Author

Ioan D. Marinescu is associate professor of the Abrasive Micro-Machining Laboratory at the University of Toledo, Toledo, Ohio. He previously held similar positions at Kansas State University and the University of Connecticut. He has given numerous presentations on various aspects of ceramic grinding in the United States and in Europe.

Hans K. Tonshoff is professor and director of the Institution for Production Engineering at the University of Hannover, Hannover, Germany. He is also director of the Hannover Laser Center. His main interest is in manufacturing technology, machine tools, and production information systems.

Ichiro Inasaki is professor, Faculty of Science and Technology, at Keio University, Yokohama, Japan. He has won awards from the Mechanical Engineers, Grinding Engineers, and Precision Engineers Societies in Japan, and ten awards from the Japan Machine Tool Engineering Foundation. In 1998, he was a visiting professor at the University of California, Berkeley, in the United States.

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