



# Handbook of Machining with Grinding Wheels (Manufacturing Engineering and Materials Processing)

*Ioan D. Marinescu, Mike P. Hitchiner, Eckart Uhlmann, W. Brian Rowe, Ichiro Inasaki*

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**Handbook of Machining with Grinding Wheels (Manufacturing Engineering and Materials Processing)** Ioan D. Marinescu, Mike P. Hitchiner, Eckart Uhlmann, W. Brian Rowe, Ichiro Inasaki  
Grinding offers capabilities that range from high-rate material removal to high-precision superfinishing, and has become one of the most widely used industrial machining and surface finishing operations. Reflecting modern developments in the science and practice of modern grinding processes, the Handbook of Machining with Grinding Wheels presents a broad range of abrasive machining technologies with a focus on the fundamental concepts and practical applications.

Written by an international team of experts unrivalled in their experience and standing in the field, this comprehensive reference takes a unified approach to abrasive machining that emphasizes the underlying physical principles and how this knowledge can best be applied to solving new grinding problems. Coverage is split neatly into two main sections, with the first dedicated to basic concepts such as grinding parameters, removal mechanisms, abrasive characteristics, and economic efficiency. The remainder of the book addresses applications, including grinding of ductile and brittle materials, grinding machines, and surface, cylindrical, internal, centerless, and ultrasonic-assisted grinding.

Reflecting the diverse research and industrial experience of the authors, the Handbook of Machining with Grinding Wheels combines theoretical and practical information into an authoritative and convenient reference source. It will help deepen knowledge and sharpen problem-solving skills applied to practically any industrial grinding challenge.

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