



Machining Dynamics: Fundamentals, Applications and Practices (Springer Series in Advanced Manufacturing)

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Machining dynamics play an essential role in the performance of the machine tools and machining processes which directly affect the removal rate, workpiece surface quality and dimensional and form accuracy. *Machining Dynamics: Fundamentals and Applications* will be bought by advanced undergraduate and postgraduate students studying manufacturing engineering and machining technology in addition to manufacturing engineers, production supervisors, planning and application engineers, and designers.

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Editorial Review

Review

From the reviews:

[*Machining Dynamics*] can be used for final undergraduate engineering course (for example, manufacturing, mechanical, etc.) or as a subject on manufacturing at the postgraduate level. Also, this book can serve as a useful reference for academics, manufacturing researchers, mechanical and manufacturing engineers, professional in related industries with machine tools and machining processes.

Davim, J.P. (2009) 'Machining Dynamics by Kai Cheng (Ed.)', *Int. J. Machining and Machinability of Materials*.

"Machining dynamics is an important area for the advancement of national economies. ... This book is the work of 16 authors. ... This work can be used as an introduction to some of the science and engineering that lies at the foundation of the operation of these machine tools. Summing Up: Recommended. Upper-division undergraduates, graduate students, researchers, and faculty in manufacturing engineering." (A. M. Strauss, Choice, Vol. 46 (9), May, 2009)

From the Back Cover

Machining dynamics play an essential role in the performance of machine tools and machining processes in manufacturing. Current advances in computational modelling, sensors, diagnostic equipment and analysis tools, 3D surface metrology and manufacturing science are giving researchers and practising engineers a new perspective on the machining process.

Machining Dynamics: Fundamentals, Applications and Practices reflects the new integrated approach to studying machining dynamics by presenting state-of-the-art applications, practices and research in the field. Written by experts in each field, the first part of the book presents the basic theory, analysis and control methodology in addition to detailed modelling and diagnostic techniques for machining dynamics, while part two focuses on applying the fundamentals of machining dynamics in a variety of machining processes including turning, grinding, gear machining and non-traditional machining.

Advanced undergraduate and postgraduate students studying manufacturing engineering and machining technology will find *Machining Dynamics: Fundamentals, Applications and Practices* a comprehensive and up-to-date introduction to the subject while the book's thoroughness allows it to serve as a useful reference for manufacturing engineers, production supervisors, planning and application engineers and designers.

About the Author

Professor Kai Cheng holds the chair professorship in Precision Engineering at Leeds Metropolitan University. His current research interests focus on the design of precision machines and instruments; nano-/micro-machining; machining dynamics and control; precision manufacturing; and digital manufacturing and enterprise technologies. Professor Cheng has published over 160 papers in international journals and refereed

conferences, authored/edited four books and contributed six book chapters. He is Associate Editor (Europe) for Springer's *International Journal of Advanced Manufacturing Technology*.

His BEng (Hons) and MSc degrees were obtained from the Harbin Institute of Technology and he has a PhD from Liverpool John Moores University. He worked as a senior lecturer in Glasgow Caledonian University before joining Leeds Metropolitan University. Professor Cheng is a fellow of the IEE and the IMechE, and a member of the Euspen. He is the leader of the Advanced Manufacturing Technology Research Group, which is currently working on a number of research projects funded by the UK Research Councils, EU 6th Framework Program, KTP Program, DTI (UK), and the industry. The group has a record of international excellence in the areas of precision machine design, nano-/micro-machining and digital manufacturing.

Users Review

From reader reviews:

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