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Dongming Guo

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This book presents a wealth of valuable up-to-date information for active researchers and engineers, and will certainly form a solid basis for any future research, in the field of abrasive technology, which is aimed at creating new and practical machine tools, systems and processes, or at identifying new characteristics. The topics covered in this book include new development and applications in grinding, polishing, lapping, honing and finishing technologies, novel techniques and new understanding of dressing and truing for grinding processes, and other novel abrasive technologies such as abrasive jet processing. It also covers other topics relevant to precision manufacturing, including nano-processing of brittle materials, precision measurement and evaluation of high precision components, micro-fabrication, and advanced machining technologies such as ecological and high-speed machining. This book is a collection of 129 papers selected from some 297 submissions of full-written papers contributed from around the world through a rigorous peer-review and revision process for their originality and quality.