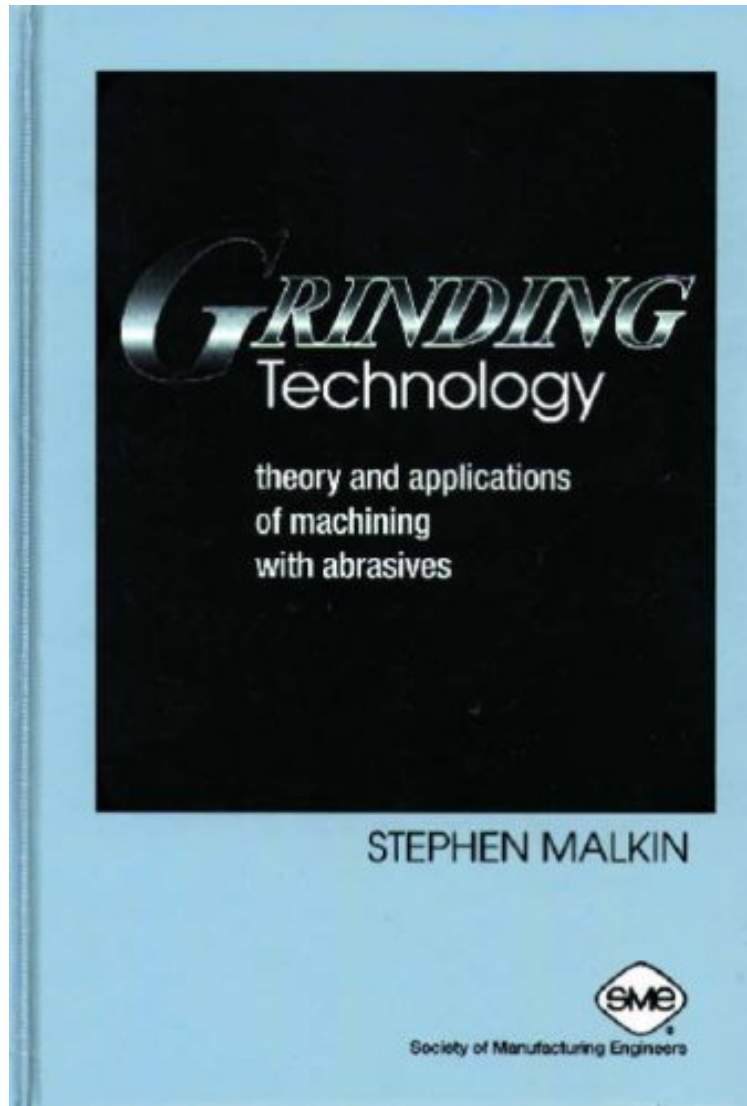


Grinding Technology: Theory and Applications of Machining with Abrasives

Stephen Malkin

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#5139636 in Books 1989-01 Original language: English PDF # 1 #File Name: 0872634809275 pages | File size: 76.Mb

Stephen Malkin : Grinding Technology: Theory and Applications of Machining with Abrasives before purchasing it in order to gauge whether or not it would be worth my time, and all praised Grinding Technology: Theory and Applications of Machining with Abrasives:

0 of 0 people found the following review helpful. Grinding Technology By Tom Miller Good book, but I recommend his Stephen Malkin's followup book where he expands more. I found the book easy to read and follow and the

principles sound and helpful for me in improving my grinding processes. My employer did not agree, but the math spoke for itself and they ignored an opportunity to save \$88,000 a year on consumable grinding wheels. At least they let me conduct the experiments to prove that improvement was possible. Shame on them for not implementing them or even allowing a pilot to occur as there was no statistically significant impact to mechanical yield observed in my experimental study. I was grinding mono-crystalline solar silicon ingots into the shape of solar wafers before the wire-sawing process that cuts the ingots into wafers. The section on brittle material grinding was very helpful and took me even further down the road to improved quality and throughput in the low margin industrial environment that solar is. In short, this book allowed me to address all of my technical challenges in producing world class product quality and tool uptime. Unfortunately, management did not agree and it now cost them nearly an extra \$88K, minimum, a year to operate their grinding module because they refused to trust the data and allow a pilot study to be run. 2 of 2 people found the following review helpful. The most comprehensive book on Grinding Technology By A Customer This is the only book that goes into so much into the scientific details about the grinding process. This book is a must read if you are interested in understanding the mechanisms and fundamentals of grinding. Most logically written with a grip on the matter makes it an interesting book. I highly recommend the book for a professional who is pursuing a career in Grinding research. 2 of 2 people found the following review helpful. the grinding bible By A Customer Malkin has superior insight into the mechanics of grinding. Just speak with him and see. He is an ASME fellow, widely published, and has a large university lab. This book will answer any question anybody could have about grinding processes, or at least I've never stumped it!

This comprehensive, self-contained work brings to the reader what is known to date about grinding and how that knowledge can be translated into exceptional precision in part manufacturing. Structured to educate as well as serve as a shop-floor reference, the book bridges the gap between theory and application, presenting a critical and unified picture of the grinding process and how its use brings part quality in harmony with customer expectations.

About the Author Stephen Malkin has been at the University of Massachusetts since 1986, where he is professor of mechanical and industrial engineering. An author of more than 150 papers, he is internationally recognized for research on machining and grinding processes.