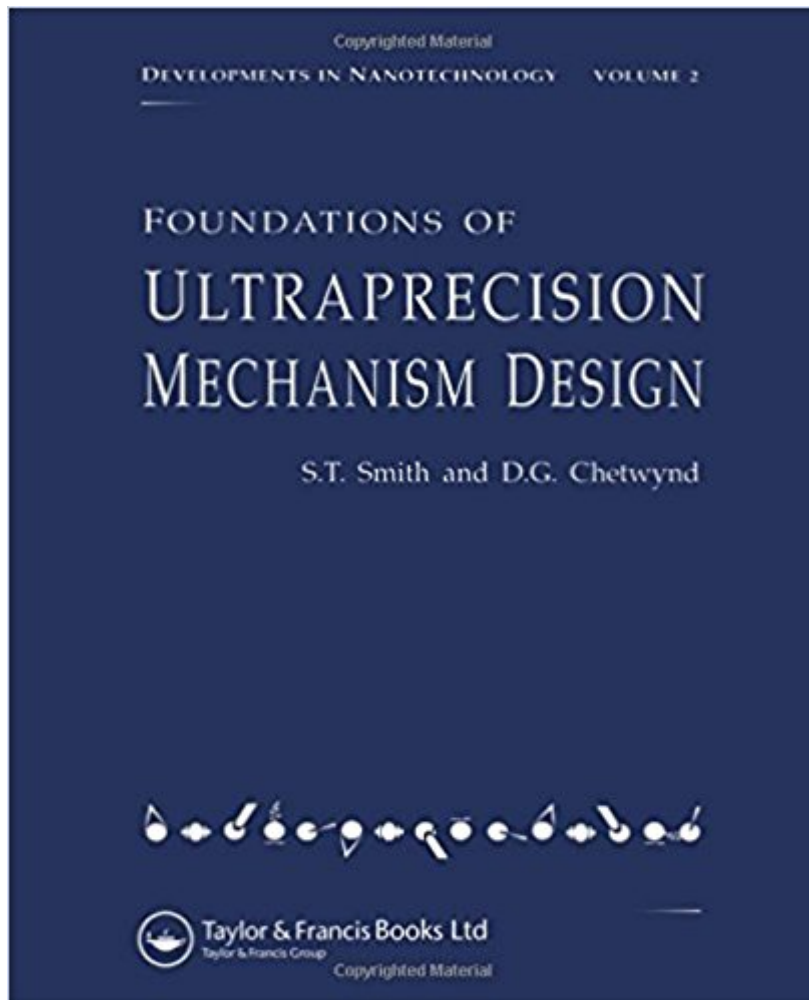




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Foundations Of Ultra-Precision Mechanism Design



Synopsis

The realm of ultra precision mechanisms, for example in controlling motion to small fractions of a micrometer, is encroaching into many fields of technology. This book aims to provide a bridge for those moving from either an engineering or physics background towards the challenges offered by ultraprecision mechanisms. Using case study examples, this book provides a guide to basic techniques and gives technical, analytical and practical information.

Book Information

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Customer Reviews

"This collection is a lovely opportunity to explore many of the aspects of precision engineering that makes it a continuing challenge and joy for all those who work in the field.."-D.B. Debra of Stanford University

Great looking book! Now to find the time to study it!!!

Smith & Chetwynd's book covers many of the fundamental design considerations for ultraprecision devices. This is done from a physicist's perspective starting with a discussion of the basis for simple beam analysis. It proceeds through optimal constraint and flexure design, along with actuator and detector selection. Simplified design examples are included. Finally, a selection of construction materials along with their physical properties are presented, along with a discussion of

optimization on that basis.

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