

Precision Machine Design

By Alexander H. Slocum



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This book is a comprehensive engineering exploration of all the aspects of precision machine design - both component and system design considerations for precision machines. It addresses both theoretical analysis and practical implementation providing many real-world design case studies as well as numerous examples of existing components and their characteristics. Fast becoming a classic, this book includes examples of analysis techniques, along with the philosophy of the solution method. It explores the physics of errors in machines and how such knowledge can be used to build an error budget for a machine, how error budgets can be used to design more accurate machines. Supporting software (MS Excel spreadsheets on 5.25' diskette) enable the reader to study 'What if' design scenarios based on formulas presented in the book.



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