



Intelligent CNC Programming of Machine Tools: Artificial Techniques

By Gjelij, Afrim

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Nowadays, the application of artificial techniques is present in various fields as well as in the manufacturing industries. This Book offers the applications of Artificial Techniques available for programming of CNC Machine Tools. Offers clear description for different problems of Intelligent CNC machine tools, such as tool path length, tool selection, optimization of machining parameters. Also, in this book are explain the problems for linear, circular and spline interpolation. As another problem, is developed as model for flexible manufacturing system including such as: saw, lathe, boring, milling and grinding CNC machine tools. Except, of main problems in this book are obtained and analyzed some other problem with help of the Artificial Intelligence for investigation of cutting force, surface roughness, measurement of tool wear. Mathematical model is implemented into the Multi-objective Genetic Algorithm to solve the problem as case of study in this book. Discrete machining is applied to solve the problem for turning workpiece where each square present the sequence of machining process, and cutting force is depended from the depth of cut and geometry of workpiece using Matlab. | Format: Paperback | Language/Sprache: english | 136 pp.



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