

CNC Part Programming

- 1- Manual Part Programming (G-Code)
- 2- Computer Assisted Part Programming (APT)
- 3- Part Programming Using CAD/CAM

Computer-Assisted Part Programming

APT: Automatically Programmed Tooling.

. APT is a three-dimensional NC programming system.

. APT is not only a language; it is also the computer program that processes the APT statements to calculate the corresponding cutter positions and generate the machine tool control commands.

Numerical Control Programming In Apt

Larry Horath



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Numerical Control Programming in APT Irvin H. Kral,1986 *Numerical Control Programming* George C. Stanton,1989-05-01 **Numerical Control Programming** George C. Stanton,1988-01-01 **Integrating Advanced Computer-Aided Design, Manufacturing, and Numerical Control: Principles and Implementations** Xu, Xun,2009-01-31 This book presents basic principles of geometric modelling while featuring contemporary industrial case studies Provided by publisher *Numerical Control Lathe Language Study* Peter D. Senkiw,1979 An examination of fifteen numerically controlled lathe programming systems was conducted to characterize them qualitatively and quantitatively The report presents a description of each of the fifteen voluntary participants systems The report describes the non technical characteristics of each system the business and operational characteristics such as hardware and software sources and costs documentation training vendor support and maintenance tabulates the capabilities of the languages for description of the geometrical configurations of the part being programmed and the variety of the geometrical formats accepted by each system as manuscript statements discusses the use of macros to simplify the writing of programs to perform the common operations of all lathe work automatic roughing finishing along a profile threading grooving and necking drilling boring reaming and tapping presents a brief discussion of the distinguishing characteristics of each system describes the preparation of ten test parts for use in demonstrating the capabilities of the fifteen systems describes the capabilities demonstrated by the fifteen systems to program the ten test parts the amount of time required to write the program and to debug it it shows the success in processing and postprocessing the program and the verification of the output tape

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