



## Unit 5 Numerical Control

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### Sections:

1. Fundamentals of NC Technology
2. Computer Numerical Control
3. Distributed Numerical Control
4. Applications of NC
5. NC Part Programming

# Numerical Control Part Programming

**James Valentino, Joseph Goldenberg**



## **Numerical Control Part Programming:**

Numerical Control Part Programming James J. Childs, 1973      *Introduction to Computer Numerical Control (CNC)* James Valentino, Joseph Goldenberg, 2003

One of the greatest challenges facing the United States today is in the area of manufacturing. To a large extent the computer has revolutionized this technology. It has virtually transformed the process of product design analysis and manufacture. Industries are finding that the new manufacturing technology demands well trained personnel. Education is now being viewed as a continuous and long term investment. The third edition of *Introduction to Computer Numerical Control CNC* has been expanded and improved. The blueprint reading material has been separated as follows: Chapter 5 Review of Basic Blueprint Reading for CNC Programmers and Chapter 6 Review of Basic Geometric Dimensioning and Tolerancing for CNC Programmers. Chapter 18 now includes a presentation on creating and simulating a complete part program using Mastercam CNC software. The third edition introduces the use of CNC software for writing, verifying and simulating the milling word address programs in this text. To this end a new Chapter 20 titled *Verifying Part Programs* has been added. Included with this edition is a bound CD ROM disk containing powerful industrial quality CNC verification and simulation software. The software displays real time solid model animation of the machining that results from a part program. Additionally it has an inspection mode that enables students to section as well as verify the dimensions of the machined part. The milling part programs in the text have been edited so they will work properly with the verification and simulation software. Each chapter begins with a brief listing of objectives and ends with a chapter summary. Illustrations and photographs are used liberally throughout to reinforce pictorially what is being discussed. Students are frequently directed to boxed in key terms and concepts. Flowcharts are used to teach CNC process planning and program planning. The important topic of job setup is discussed in the many solved programming examples. Fundamental word address G and M code programming is stressed. Industrial standard practices and terms are emphasized in the solved programming examples. Needless cross referencing has been eliminated. Each program is listed with all explanations appearing on the same page. Pattern recognition is emphasized. The student is taught to recognize a certain group of programming commands as a programming pattern. For example pattern A commands start up the CNC machine whereas pattern B commands cause a tool change to take place. An excellent assortment of review exercises is provided at the end of each chapter. These exercises supply the student such important information as the operation to be performed, tooling, tool speed, tool feed and job setup data. The industry standard Fanuc controller is emphasized throughout the text. Important mathematical principles are reviewed before programming is presented. A special chapter on right triangle trigonometry provides the student with the critical mathematical information needed to understand programming. The student is exposed to the big picture of CNC shop activities. A special chapter explains the most important operations to be carried out in manufacturing a part. Appendixes contain information useful to the CNC student. They include a list of important safety precautions, summaries of G and M

codes for milling and turning operations recommended speeds and feeds for different materials with respect to drilling milling and turning operations and important and easy to use machining formulas A comprehensive glossary of key CNC terms is provided at the end of the book Verification and simulation software enables students to visualize the effects of a written part program Introduction to Computer Numerical Control CNC Third Edition can be used as an entry level text for many different types of training applications These include Undergraduate one semester or two semester CNC courses Manual component of a CNC programming course Industry training course Seminar on CNC programming Adult education course Reference text for self study This textbook is designed to be used in many types of educational institutions Four year engineering schools Four year technology schools Community colleges Trade schools Industrial training centers This work is the result of several years of experience in running CNC courses for both industrial personnel and the students at Queensborough Community College We found that many existing texts were either too general or too advanced for direct application As a result we drafted supplementary notes containing step by step information The notes were enhanced and tested extensively in the classroom Several colleagues both in industry as well as in education were called upon for their input A thorough market survey also influenced the final content It should be noted that all the programs presented have been thoroughly tested The student is advised to take the appropriate safety precautions when running them on a CNC machine Computer-aided Part Programming for Numerical Control John D. McCarroll,1969

**CNC Programming Handbook** Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects *Teaching Numerical Control Part-programming Principles (machining)* Gustav Olling,1974 **Introduction to Numerical Control** United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Science and Technology,1971

**Introduction to Numerical Control, Hearing Before the Subcommittee on Science and Technology ... 92-1, June 24, and July 26, 1971** United States. Congress. Senate. Select Committee on Small Business,1971 **CNC Machines** B. S. Pabla,M. Adithan,1994 *The CNC Workbook* Frank Nanfara,Tony Uccello,Derek Murphy,1995 The CNC Workbook the only CNC related text with simulation software is a flexible unique package where the programming code that is learned and generated by the student can either be sent to an actual machine or to the simulation software It is an excellent simulation and animation tool for milling and turning which can be used to test existing programs or write and edit new ones This book covers the basics of Computer Numerical Control programming including step by step coverage of machining processes fundamentals of CNC and basic CNC programming concepts It can be used as a stand alone text in a hands on CNC course or can be used as a supplement in a comprehensive manufacturing process or numerical controls course The book and software package is an excellent instruction tool for CNC programming Highlights The only CNC related text with simulation software that can replace or supplement actual machining experience Students can learn basic part programming without actually using a CNC Mill and Lathe The simulation software features interactive editing of part

programs The part shape is constantly updated as each new line of CNC code is added or changed Covers the basics of CNC programming with step by step coverage of machining processes an introductory chapter on CAD CAM and an overview of MasterCAM Contains a review of machining terms and procedures many exercises and programming examples and appendices with speeds and feeds and answers to exercises Hardware Requirements 8086 80286 or higher personal computer DOS 3.0 or higher EGA or VGA graphics Minimum 1 MB hard drive disk space 640K memory 2 or 3 button mouse 3.5 high density floppy disk drive

**CNC Programming Handbook** Peter Smid, 2008 This latest edition of a popular reference contains a fully functional shareware version of CNC toolpath simulator editor NCPlot on the CD ROM a detailed section on CNC lathes with live tooling image files of many actual parts the latest Fanuc and related control systems and much more

An Introduction to Computer Numerical Control Peter Ian Manley, South Australian College of Advanced Education, 1985

**Export Administration Regulations** United States. Bureau of Export Administration, United States. Office of Export Administration, 1985

An Introduction to CNC Machining and Programming David Gibbs, 1991 Presents a balanced introduction to both machining and part programming Uses the reader's knowledge on conventional machines to explain the operation of CNC machining Includes sufficient information to provide the theoretical knowledge and practical aspects needed to comprehend CNC machining Contains a chapter on conversational and manual programming as well as computer aided part programming Offers hundreds of clear illustrations to fully clarify the text

**Federal Register**, 1982-12-27

*The CNC Workshop* Frank Nanfara, Tony Uccello, Derek Murphy, 1999 This package covers the basics of CNC programming including step by step coverage of machining processes fundamentals of CNC and basic CNC programming concepts It can be used as a stand alone package in a hands on CNC course or can be used as a supplement in a comprehensive manufacturing process or numerical controls course The book and CD package is an excellent instruction tool for CNC programming and many of the animations and videoclips can be used for classroom presentation Features This is the only CNC educational package with simulation software that can replace or supplement actual machining experience Students can learn basic part programming without actually using a CNC mill or lathe The simulation software features interactive editing of part programs The part shape is constantly updated as each new line of CNC code is added or changed The flexible workbook and CD format allows students to read from the workbook view on screen content or listen to audio clips depending on their learning styles and needs This package covers the basics of CNC programming with step by step coverage of machining processes an introduction to CAD CAM and an overview of Edg

**CNC Control Setup for Milling and Turning** Peter Smid, 2010 This unique reference features nearly all of the activities a typical CNC operator performs on a daily basis Starting with overall descriptions and in depth explanations of various features it goes much further and is sure to be a valuable resource for anyone involved in CNC

*Control Systems and Part Edge Programming for Computer Numerical Control* Aun Neow Poo, 1973

**Numerical Control: Practice and Application** W. J. Patton, 1972

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**Overview of Numerical Control Machining and Computer Assisted Part Programming of a Computer Numerical Control Machining Center/FAUNUC 6M Control System** Palaniappan Adaukalavan,1985      *Proceedings of ... Annual Meeting and Technical Conference, Numerical Control Society* Numerical Control Society. Meeting and Technical Conference,1983

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