

# Fanuc Cnc Programming Training Learn Cnc For Fanuc

There are many ways to apply knowledge to achieve a successful career. Different people have used different ideologies get to the top. What are the characteristics that will help you achieve success? This book caters not only to students stepping into the engineering fields or the corporate world for the first time but also to those who are stuck in the wrong profession. The book highlights the importance of knowing your field of education, the importance of personality, finding the right opportunity in different fields of work, choosing the right first employer, and other important decisions related to your career. This book is an essential read for anyone who wants to enter the field of engineering. The volume includes a good number of illustrations with detailed notes.

This textbook covers the basics of CNC, introducing key terms and explaining the codes. It uses Fanuc compatible programming in examples and provides CAD/CAM lathe and mill program examples accompanied by computer screen displays. Included is a CAD/CAM software program for designing parts, generating machine codes, and simulating the tool path to check for programming errors. An illustrated glossary is also included. Annotation copyrighted by Book News, Inc., Portland, OR  
Fanuc CNC Custom Macros Programming Resources for Fanuc Custom Macro B

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UsersIndustrial Press Inc.

If you want to learn safe, proven, and accepted methods for programming and operating CNC machining centers, you can't afford to miss this Key Concepts approach to learning how to apply CNC machining centers in manufacturing. The content utilizes this unique approach to introduce you to the method of programming and operation that can be applied to horizontal and vertical machining centers. This essential 24-lesson tutorial offers step-by-step coverage of the most popular CNC equipment in a way that anyone can understand. We do assume the student possesses knowledge of basic machining practices. Whether you already work for a manufacturing company that uses CNC machining centers, or if you are trying to learn about CNC, this study manual will provide you with the skills you need to ensure correct operation of CNC machine tools.

Fundamentals of CNC Machining

Basics and Tutorial

School Shop/tech Directions

CNC Trade Secrets

CNC Part Programming Workbook

Machine Tool Technology Basics

**You don't have to know everything about CNC machines in order to makes parts on them.**

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Whether you're a shop owner, machinist, designer, or hobbyist, Harvey shows you useful techniques for holding and machining parts using CNC machines, and provides a potpourri of practical and proven machining tips and tricks.

Includes a valuable CAD/CAM software program.

Presents complete information on various programming techniques, from the basic areas to dozens of advanced concepts. Includes thousands of illustrations, tables, formulas, tips, shortcuts and real-world examples. Offers unparalleled reference material useful for skills training at all levels of CNC. Presents an encyclopedic, logically organized... more » approach to CNC programming, allowing the reader to look up a subject of interest only. Uses cross references throughout to guide the reader to the proper answer or solution to a problem.

Start a successful career in machining Metalworking is an exciting field that's currently experiencing a shortage of qualified machinists—and there's no time like the present to capitalize on the recent surge in manufacturing and production opportunities. Covering everything from lathe operation to actual CNC programming, Machining For Dummies provides you with everything it takes to make a career for yourself as a skilled machinist. Written by an expert offering real-world advice based on experience in the industry, this hands-on guide begins with basic topics like tools, work holding, and ancillary equipment, then goes into drilling, milling, turning, and other necessary metalworking processes.

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You'll also learn about robotics and new developments in machining technology that are driving the future of manufacturing and the machining market. Be profitable in today's competitive manufacturing environment Set up and operate a variety of computer-controlled and mechanically controlled machines Produce precision metal parts, instruments, and tools Become a part of an industry that's experiencing steady growth Manufacturing is the backbone of America, and this no-nonsense guide will provide you with valuable information to help you get a foot in the door as a machinist.

Second International Conference on Distance Education in Russia : Open and Distance Learning as a Development Strategy

The CNC Cookbook

CNC Control Setup for Milling and Turning

CNC Machining Center Programming, Setup, and Operation 2nd Edition

CNC Turning Center Programming, Setup, and Operation 2nd Edition

Description of the Parameters and Programming Examples

*Articles that have been updated from versions that were originally published in "Shop Talk."*

*Master CNC macro programming CNC Programming Using Fanuc Custom Macro B shows you how to implement powerful, advanced CNC macro programming techniques that result in unparalleled accuracy,*

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*flexible automation, and enhanced productivity. Step-by-step instructions begin with basic principles and gradually proceed in complexity. Specific descriptions and programming examples follow Fanuc's Custom Macro B language with reference to Fanuc 0i series controls. By the end of the book, you will be able to develop highly efficient programs that exploit the full potential of CNC machines. COVERAGE INCLUDES: Variables and expressions Types of variables--local, global, macro, and system variables Macro functions, including trigonometric, rounding, logical, and conversion functions Branches and loops Subprograms Macro call Complex motion generation Parametric programming Custom canned cycles Probing Communication with external devices Programmable data entry*

*Until now, parametric programming has been the best-kept secret of CNC! This new book demystifies this simple yet sophisticated programming tool in an easy-to-understand tutorial format, and presents a comprehensive how-to of parametric programming from a user's point of view. Focusing on three of the most popular versions of parametric programming - Fanuc's custom macro B. Okuma's user task 2, and Fadal's macro - the book describes what*

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*parametric programming is, what it can do, and how it does it more efficiently than manual programming. Along with a host of program-simplifying techniques included in the book, you're treated to descriptions of how to write, set-up and run general subprograms simulate the addition of control options and integrate higher level programming capabilities at G-code level. "CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment. Also, it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are."--BOOK JACKET.*

*CNC Programming using Fanuc Custom Macro B  
Study of Engineering and Career*

*CNC Programming Skills: Program Entry and Editing on Fanuc  
Machines*

*Fanuc CNC Custom Macros*

*SME Technical Paper*

*Programming of CNC Machines*

Written in simple, easy-to-understand language by skilled programmers with years of experience teaching CNC machining to the industry and in formal education settings,

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Programming of Computer Numerically Controlled Machines provides full descriptions of many operation and programming functions and illustrates their practical applications through examples. It provides in-depth information on how to program turning and milling machines, which is applicable to almost all control systems. It keeps all theoretical explanations to a minimum throughout so that they do not distort an understanding of the programming. And because of the wide range of information available about the selection of tools, cutting speeds, and the technology of machining, it is sure to benefit engineers, programmers, supervisors, and machine operators who need ready access to information that will solve CNC operation and programming problems.

Over its first two editions, this best-selling book has become the de facto standard for training and reference material at all levels of CNC programming. Used in hundreds of educational institutions around the world as the primary text for CNC courses, and used daily by many in-field CNC programmers and machine operators, this book literally defines CNC programming. Written with careful attention to detail, there are no compromises. Many of the changes in this new Third Edition are the direct result of comments and suggestions received from many CNC professionals in the field. This extraordinarily comprehensive work continues to be packed with over one thousand illustrations, tables, formulas, tips, shortcuts, and practical examples. The enclosed CD-ROM now contains a fully functional 15-day shareware version of CNC tool path editor/simulator, NCPlot™. This powerful, easy-to-learn software includes an amazing array of features, many not found in competitive products. NCPlot offers an unmatched combination of simplicity of use and richness of features. Support for many advanced control options is standard, including a macro interpreter that simulates Fanuc and similar macro programs. The

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CD-ROM also offers many training exercises based on individual chapters, along with solutions and detailed explanations. Special programming and machining examples are provided as well, in form of complete machine files, useful as actual programming resources. Virtually all files use Adobe PDF format and are set to high resolution printing. FEATURES Fully functional shareware version of CNC toolpath simulator/editor, NCPlot(TM), included on the CD-ROM. This powerful software includes an amazing array of features, including those not found in competitive products. Support for many advanced features is standard, and the included macro interpreter can simulate Fanuc and compatible macro toolpath programs Detailed section on CNC lathes with live tooling, including examples Image files of many actual parts, used as examples More programming examples (both in printed text and on the CD-ROM) Optimized for the latest Fanuc and related control systems Additional formulas, calculations and handy reference material Fourth axis programming (indexing and rotary) CD-ROM based projects, including several as interactive PDF forms Improved index for better search of topics 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. This CD Onlyproduct contains the complete text of Peter Smid's 3 popular CNC programming books. The supplemental CDs packaged with the books are included with the CD. Presents complete information on various programming techniques, from the basic areas to dozens of advanced concepts. Includes thousands of illustrations, tables, formulas, tips, shortcuts and real-world examples. Offers unparalleled reference material useful for skills training at all levels of CNC. Presents an encyclopedic, logically organized approach to CNC programming,

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allowing the reader to look up a subject of interest only. Uses cross references throughout to guide the reader to the proper answer or solution to a problem.

For lathes and milling machines, with free graphic simulation software

Cnc Programming Library

BASIC PROGRAMMING COURSE

A Reader for Programmers

CNC's Best-kept Secret

Engineers' Digest

**A proven guide to computer-aided machining, CNC Programming: Principles and Applications has been revised to give readers the most up-to-date information on G- and M- code programming available today. This edition retains the book's comprehensive yet concise approach, offering an overview of the entire manufacturing process, from planning through code writing and setup. is the new edition includes expanded coverage of tooling, manufacturing processes, print reading, quality control, and precision measurement. Designed to meet the needs of both beginning machinists and seasoned machinists making the transition to the abstract realm of CNC, this book is a valuable resource that will be referred to again and again. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

**This course is aimed at high school students and anyone who is approaching the world of machine tool programming for the first time. Teachers and professionals may explore more complex topics in the advanced course proposed in the book**

**"CNC - 50 Hour Programming Course". The text includes all the basic programming concepts and explains the "G-code" standard functions, i.e. the programming language at the basis of all numerical controls. The training and graphic simulation software offers free and unlimited access and faithfully reproduces a real numerical control on the computer. The teaching method and the covered topics have been selected to spark the students' interest and curiosity in the study of the matter. The training course includes chapters and paragraphs both for theoretical and practical instruction. Paragraphs on theory contain drawings and diagrams that simplify the understanding of the text. The first practical experiences consist in the use of pre-drafted programs that give the students the opportunity to familiarize with the numeric control and its potential. Later you will learn how to write new programs with difficulty levels that are commensurate to the acquired experience. The practical exercises are accompanied by the respective operating procedures that allow the students to learn on their own, reducing the need for the teacher's presence. Periodical tests are offered in order to help the students and teachers assess progress achieved or to highlight the topics for review. The total number of hours necessary for the understanding of the theoretical part and for carrying out the practical exercises will always be specified at the beginning of each chapter. The analyzed machines are a three-axis lathe (X, Z, C) with driven tools and a three-axis vertical mill (X, Y, Z). All the programs used during the explanation and all the images contained in this book, which may be used at home or printed, viewed or projected in the**

**classroom, may be downloaded from the website [cncwebschool.com](http://cncwebschool.com).**

**Written by the author of the bestselling CNC Programming Handbook and the recent release Fanuc CNC Custom Macros, this practical and very useful resource covers several programming subjects, including how to program cams and tapered end mills, that are virtually impossible to find anywhere. Other, more common, subjects, such as cutter radius offset and thread milling are covered in great depth.**

**This book teaches the fundamentals of CNC machining. Topics include safety, CNC tools, cutting speeds and feeds, coordinate systems, G-codes, 2D, 3D and Turning toolpaths and CNC setups and operation. Emphasis is on using best practices as related to modern CNC and CAD/CAM. This book is particularly well-suited to persons using CNC that do not have a traditional machining background.**

**An Insider's Guide to Effective Methods and Applications**

**CNC Programming Techniques**

**Programming of Computer Numerically Controlled Machines**

**Mastering CNC Control Systems**

**FANUC TURNING CYCLES**

**Desk Copy**

If you want to learn safe, proven, and accepted methods for programming and operating CNC turning centers, you can't afford to miss this Key Concepts approach to learning how to

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apply CNC turning centers in manufacturing. The content utilizes this unique approach to introduce you to the method of programming and operation that can be applied to horizontal and vertical machining centers. This essential 28-lesson tutorial offers step-by-step coverage of the most popular CNC equipment in a way that anyone can understand. We do assume the student possesses knowledge of basic machining practices. Whether you already work for a manufacturing company that uses CNC turning centers, or if you are trying to learn about CNC, this study manual will provide you with the skills you need to ensure correct operation of CNC machine tools.

Note: Please look for the "Textbook" version of this title to get a more detailed explanation of G-code programming along with a Lathe section. This book covers the Basics of Milling G-Code programming. Included in this book is basic milling G-code and M-code definitions with the formats for their use. Along with this book is useful reference information such as drill and tapping chart, countersink

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charts for multiple angles, section of explanation for Surface Footage with a chart of common materials. This book also contains 2 part tutorials with code and a detailed explanation of each line of code with accompanying toolpath prints. Please check out my complimentary books: CNC Programming: Basics & Tutorial Textbook CNC Programming: Reference Book [www.cncprogrammingbook.com](http://www.cncprogrammingbook.com) [www.cncbasics.com](http://www.cncbasics.com) - Projects & Discounts

The purpose of this book is to explain the Fanuc turning canned cycles through a new didactic concept. In different manuals it is easy to find contrasting descriptions regarding the Fanuc turning canned cycles. Some manuals present the G74 function as an axial drilling cycle and others present it as a grooving cycle along the Z-axis. The G75 function is also described in some texts as a radial grooving cycle, while in others it is defined as a radial drilling cycle. It should be added that the G75 function is also able to perform a facing cut with chip breaking. The book aims to explain the Fanuc turning cycles in a definite

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way by adopting a new didactic method that is not limited to the simple description of cycle parameters, but includes all the machining operations that each cycle is able to perform. Project Report from the year 2017 in the subject Computer Science - Programming, , language: English, abstract: This report covers the work that was carried out by a group of researchers on CNC (Computer Numerical Control) programming and machining. The task was to choose and design a creative item to be machined using CNC machining, which then required to write a code using CNC language. Prior to the machining process, we did a Computer Aided Design (CAD) drawing of the Mercedes Benz logo. The logo was further modified with the final model drawn using Auto Desk Inventor. We used foam for our model and a 10 diameter end mill tool. The main problem that was experienced was the cutting time; the model took longer to be complete. The cutting time was affected by the complexity of the design, chosen tool size and the cutting technique. We learnt from the demonstration that the shorter the constructed code the more robust it is, using a bigger

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tool is more efficient in terms of saving energy and time, and that if the code is correct the CNC machine model becomes identical to that of the product Design.

Computer Numerical Control Simplified  
Build Your Own CNC Machine

MANUFACTURING PROCESSES 4-5. (PRODUCT ID 23994334).  
Programming Resources for Fanuc Custom Macro B Users  
Parametric Programming for Computer Numerical Control  
Machine Tools and Touch Probes

***Making education and career connections.***

***CNC stands for Computer Numerical Control, and is a collection of technologies that enable precise computerized control of a variety of machines. If you are a hobbyist or DIY enthusiast interested in building and operating a computer controlled device like a router table or foam cutting machine, or converting and running a benchtop CNC mill or lathe, then The CNC Cookbook will provide the help you need to get started. Concepts of design, construction, and successful operation are***

*covered in a practical, straightforward way. Topics include:*

- Types of CNC hardware (motors, drive systems, linear slides, etc)*
- Electronics (motor drives, power supplies, and more)*
- Software (CAD, CAM, and controller programs)*
- Conversion of existing machines and design of new CNC machines*
- The basics of G-code and how to operate a CNC machine successfully*

*Do you like to build things? Are you ever frustrated at having to compromise your designs to fit whatever parts happen to be available? Would you like to fabricate your own parts? Build Your Own CNC Machine is the book to get you started. CNC expert Patrick Hood-Daniel and best-selling author James Kelly team up to show you how to construct your very own CNC machine. Then they go on to show you how to use it, how to document your designs in computer-aided design (CAD) programs, and how to output your designs as specifications and tool paths that feed into the CNC machine, controlling it as it builds whatever parts your imagination can dream up. Don't be intimidated by abbreviations like CNC and terms like computer-aided design. Patrick and James have chosen a CNC-machine design that is simple to fabricate. You need only basic woodworking skills and*

*a budget of perhaps \$500 to \$1,000 to spend on the wood, a router, and various other parts that you'll need. With some patience and some follow-through, you'll soon be up and running with a really fun machine that'll unleash your creativity and turn your imagination into physical reality. The authors go on to show you how to test your machine, including configuring the software. Provides links for learning how to design and mill whatever you can dream up The perfect parent/child project that is also suitable for scouting groups, clubs, school shop classes, and other organizations that benefit from projects that foster skills development and teamwork No unusual tools needed beyond a circular saw and what you likely already have in your home toolbox Teaches you to design and mill your very own wooden and aluminum parts, toys, gadgets—whatever you can dream up Before the introduction of automatic machines and automation, industrial manufacturing of machines and their parts for the key industries were made though manually operated machines. Due to this, manufacturers could not make complex profiles or shapes with high accuracy. As a result, the production rate tended to be slow, production costs were very high, rejection rates were*

*high and manufacturers often could not complete tasks on time. Industry was boosted by the introduction of the semi-automatic manufacturing machine, known as the NC machine, which was introduced in the 1950's at the Massachusetts Institute of Technology in the USA. After these NC machine started to be used, typical profiles and complex shapes could get produced more readily, which in turn lead to an improved production rate with higher accuracy. Thereafter, in the 1970's, an even larger revolutionary change was introduced to manufacturing, namely the use of the CNC machine (Computer Numerical Control). Since then, CNC has become the dominant production method in most manufacturing industries, including automotive, aviation, defence, oil and gas, medical, electronics industry, and the optical industry. Basics of CNC Programming describes how to design CNC programs, and what cutting parameters are required to make a good manufacturing program. The authors explain about cutting parameters in CNC machines, such as cutting feed, depth of cut, rpm, cutting speed etc., and they also explain the G codes and M codes which are common to CNC. The skill-set of CNC program writing is covered, as well as how to cut material*

*during different operations like straight turning, step turning, taper turning, drilling, chamfering, radius profile, profile turning etc. In so doing, the authors cover the level of CNC programming from basic to industrial format. Drawings and CNC programs to practice on are also included for the reader.*

***CNC Machining Handbook: Building, Programming, and Implementation***

***Machining For Dummies***

***CNC Programming Handbook***

***CNC Programming Handbook - Ebook***

***Resources in Education***

***A Guide to CNC Machine Shop Practices***

*For more than 25 years, this guide has been the trusted source of information on thousands of educational courses offered by business, labor unions, schools, training suppliers, professional and voluntary associations, and government agencies. These courses provide academic credit to students for learning acquired at such organizations as AT&T, Citigroup, Delta Air Lines, General Motors University, NETg, and Walt Disney World Resort. Each entry in the comprehensive **^INational Guide^R** provides:  
**^L ^L ^DBL Course title ^L ^DBL Location of all sites where the course is offered^L***

*^DBL Length in hours, days, or weeks ^L ^DBL Period during which the credit recommendation applies^L ^DBL Purpose for which the credit was designed ^L ^DBL Learning outcomes ^L ^DBL Teaching methods, materials, and major subject areas covered^L ^DBL College credit recommendations offered in four categories (by level of degrees) and expressed in semester hours and subject areas(s) in which credit is applicable. ^L ^L The introductory section includes ACE Transcript Service information. For more than 25 years, this guide has been the trusted source of information on thousands of educational courses offered by business, labor unions, schools, training suppliers, professional and voluntary associations, and government agencies. These courses provide academic credit to students for learning acquired at such organizations as AT&T, Citigroup, Delta Air Lines, General Motors University, NETg, and Walt Disney World Resort. Each entry in the comprehensive ^INational Guide^R provides: ^L ^L ^DBL Course title ^L ^DBL Location of all sites where the course is offered^L ^DBL Length in hours, days, or weeks ^L ^DBL Period during which the credit recommendation applies^L ^DBL Purpose for which the credit was designed ^L ^DBL Learning outcomes ^L ^DBL Teaching methods, materials, and major subject areas covered^L ^DBL College credit recommendations offered in four categories (by level of degrees) and expressed in semester hours and subject areas(s) in which credit is applicable. ^L ^L The introductory section includes ACE Transcript*

***Service information.***

***A Practical Guide to CNC Machining Get a thorough explanation of the entire CNC process from start to finish, including the various machines and their uses and the necessary software and tools. CNC Machining Handbook describes the steps involved in building a CNC machine to custom specifications and successfully implementing it in a real-world application. Helpful photos and illustrations are featured throughout. Whether you're a student, hobbyist, or business owner looking to move from a manual manufacturing process to the accuracy and repeatability of what CNC has to offer, you'll benefit from the in-depth information in this comprehensive resource. CNC Machining Handbook covers: Common types of home and shop-based CNC-controlled applications Linear motion guide systems Transmission systems Stepper and servo motors Controller hardware Cartesian coordinate system CAD (computer-aided drafting) and CAM (computer-aided manufacturing) software Overview of G code language Ready-made CNC systems***

***`A good text in a logical order, plus useful projects. Covers main points without lengthy reading.' - College Lecturer One of the five workbooks which, together with the core text 'Computer-Aided Engineering', make up our publishing package for the City and Guilds Computer-aided Engineering 230 scheme and equivalent BTEC courses. The workbooks can be used independently of each other and of the core text. CNC (computerised***

*numerical control) systems are essential elements in many industrial processes. The CNC Part Programming Workbook contains 15 learning assignments, each with a number of carefully chosen and structured tasks which will develop the skills needed to work from engineering drawings of components which are to be machined and to produce part programs which incorporate the various commands and functions of a CNC system. There are also three realistic work-based projects which bring together various aspects covered in the workbook. All necessary topics are included from program planning and writing to editing and proving. Supported by many illustrations, the assignments in the workbook will give students and trainees the necessary range of practical experiences to acquire competence in the CAE discipline.*

*Do you know how to insert a part of a program into another program at the desired location? Background editing?? Using PCMCIA card??? Or, maybe, a simple task such as replacing G02 by G03 in the whole file???? When it comes to manual program entry on the machine, or searching / deleting / editing / copying / moving / inserting an existing program residing in the control memory or the PCMCIA card, most people resort to trial and error method. While they might be able to accomplish what they desire, the right approach would save a lot of their precious time. If this is exactly what you want, this book is for you. The information contained herein is concise, yet complete and exhaustive. The best part is that you can enjoy the convenience of having the wealth*

*of useful information on editing techniques even on your smart phone which is always with you! You would often need to refer to it because it is not possible to memorize all the steps which are many a time too complex and devoid of common logic, so as to make the correct guess. The following excerpt from the book would give an idea of the methodical and step-by-step approach adopted in the book: Writing a file on the memory card: The following operation will save program number 1234 in the memory card, with the name TESTPRO: \* Select the EDIT mode on the MOP panel. \* Press the PROG key on the MDI panel. \* Press the next menu soft key. \* Press the soft key CARD. \* Press the soft key OPRT. \* Press the soft key PUNCH. \* Type 1234 and press the soft key O SET. \* Type TESTPROG and press the soft key F NAME. \* Press the soft key EXEC. While the file is being copied on the memory card, the character string OUTPUT blinks at the lower right corner of the screen. Copying may take several seconds, depending on the size of the file being copied. If a file with file name TESTPROG already exists in the memory card, it may be overwritten unconditionally or a message confirming the overwriting may be displayed, depending on a parameter setting. In case of such a warning message, press the EXEC soft key to overwrite, and CAN soft key to cancel writing. However, system information such as PMC ladder is always overwritten unconditionally. The copied file is automatically assigned the highest existing file number plus one. The comment, if any, with the O-word (i.e., in the first block of the*

*program) will be displayed in the COMMENT column of the card directory. To write all programs, type -9999 as the program number. In this case, if file name is not specified, all the programs are saved in file name PROGRAM.ALL on the memory card. A file name can have up to 8 characters, and an extension up to 3 characters (XXXXXXXXX.XXX). Repeat the last three steps to copy more files. Finally, press the CAN soft key, to cancel the copying mode and go to the previous menu.*

*National Guide to Educational Credit for Training Programs 2004-2005*

*A Career Guidance Hand Book for Engineering Students*

*CNC Programming*

*Proceedings*

*A Guide to Mastering the Use of CNC Machining Centers*

*A Guide to Mastering the Use of CNC Turning Centers*