



Books & Publications From CNC Concepts Keep You On Top Of Your CNC Environment!

Even if your CNC equipment seems to be running smoothly, the wise CNC user will be on the constant look-out for ways to improve their CNC environment. These specially selected books and publications are aimed at keeping you abreast of the latest developments in CNC technology.

All hard-bound books are written by Mike Lynch of CNC Concepts, Inc. and published by well established publishers like McGraw Hill and the Society of Manufacturing Engineers. Soft-bound books are published by CNC Concepts, Inc.



Parametric Programming For CNC Machine Tools And Touch Probes

433 pages - 150 illustrations - published by SME

One of the most productive tools in the CNC world today is going largely unused! Indeed, most CNC users have never even heard of parametric programming, yet virtually all have excellent applications for it that will not only streamline their operations, but cut time, cost, and complexity from every machining cycle they run. Until now, parametric programming has been the best kept secret of CNC!

In an easy-to-understand tutorial format, CNC author and expert Mike Lynch 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, and Fadal's macro) this book describes what parametric programming is, what it can do, and how it does it more efficiently than manual programming.

Part one of the book introduces you to the many features and benefits of parametric programming and how to apply them to improve the general utilization of your CNC machine tools. Part two shows you how to write parametric programs to drive your probing systems.

Including many real-world example programs and applications, this text shows how to identify applications for parametric programming and realize the dramatic gains it affords. For the CNC user wanting to stay at the cutting edge of manufacturing technology, this book is essential.

Part one - Machine tools: Introduction to parametric programming, Introduction to variables, Arithmetic capabilities, Logic and program flow control, CNC features of parametric programming, Approaching and verifying parametric programs **Part two - Touch probes:** Introduction to probing, CNC commands used with probing, Spindle probe programming

BP-PP Parametric Programming **\$83.00**



Computer Numerical Control Accessory Devices

257 pages - 55 illustrations - published by McGraw Hill

Since CNC machine tools are quite commonplace in manufacturing, it is relatively easy to find training and information related to basic CNC equipment. Many schools, for example, offer training on CNC and there are a variety of books available on the subject. However, the CNC machine tool itself is many times only part of the entire CNC environment. Often the CNC machine must be equipped with one or more accessories used to enhance what the machine is intended to do. And often the proper application of the accessory device makes or breaks the CNC operation.

Until now, there have been very few places a person can turn to learn about CNC accessories. In the past, the CNC person has been forced to learn about the accessory while under the gun to produce workpieces. With this new and innovative text, the reader will be able to learn about a variety of accessories aimed at enhancing the use of CNC machining centers and turning centers. Examples of accessories covered include probing systems, rotary devices, bar feeders, right angle heads, steady rests, pallet changers, and CNC text editors.

BP-CNCAD CNC Accessory Devices **\$53.00**



Managing CNC Operations

372 pages - 40 illustrations - published by SME

Today's CNC users face fierce global competition. Not only must our CNC machines produce workpieces of the highest quality, they must do so as efficiently as possible. This means your CNC environment must operate at peak performance levels in order to stay competitive. Your company's very survival depends upon how well you meet this challenge. This book is devoted to improving the utilization of your CNC machine tools and should be considered a *must read* for anyone involved with the use of CNC, including shop owners, managers, CNC coordinators, programmers, trainers, and setup people.

This book contains information not found in other texts, including a full CNC curriculum to help instructors teach CNC and a lengthy discussion of setup time and cycle time reduction principles and techniques.

Part one - Introduction to the CNC environment: Elements of the CNC environment, Applying value added principles, Defining your company's needs **Part two - Educating your people:** Introduction to industrial training issues, Developing your in-plant training program, The key concepts approach to teaching CNC **Part three - Setup and cycle time reduction:** Setup time reduction principles, Setup time reduction techniques, Cycle time reduction techniques **Part four - Other important CNC issues:** Documentation issues, Program preparation and storage issues, Service and maintenance issues

BP-MCNCO Managing CNC Operations **\$83.00**



Computer Numerical Control For Machining

422 pages - 120 illustrations - published by McGraw Hill

Today, Computer Numerical Controlled (CNC) machines are found everywhere -- from small jobs shops in the most rural of communities to Fortune 500 manufacturers in large urban areas. This book provides the practical basics for learning how to program and operate the latest CNC controls. It examines the usage techniques necessary for successful CNC operations in a variety of machine applications including milling machines, machining centers, turning centers, wire EDM equipment, turret punch presses, and laser cutting machines. Upon completing this book, the reader will possess a firm understanding of the basics required to become proficient with any form of CNC equipment.

Special Features: Highlights the actual techniques of programming and operating through the use of a proven "key concepts" approach which helps the engineer, programmer, or shop person apply the basic principles learned to ANY kind of CNC machine tool. Emphasizes the need for a thorough understanding of all preparation stages in order to ensure the success of any CNC program. Safety is always stressed as the primary concern in all discussions of CNC machine operations.

Part 1 - Manual programming: Introduction/Know your Machine/Prepare To Write Programs/Motion Types/ Compensation Types/Special Features of Programming; **Part 2 - Conversational Programming:** Introduction to Conversational Controls/Flow of Conversational Programming; **Part 3 - Machine operation:** Know Your Machine/The Three Modes of Operation/The Key Sequences of Operation/Verifying Programs Safely

BP-CNCFM CNC For Machining **\$65.00**



Materials from our CNC Curriculums and CD-rom Courses!



Machining Center Programming, Setup, And Operation

329 pages - 60 illustrations - published by CNC Concepts

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 machine tools in manufacturing. This text utilizes this unique approach to introduce you to the method of programming and operation that can be applied to both vertical as well as horizontal machining centers.

This step-by-step tutorial offers coverage of the most popular form of CNC equipment in a way anyone can understand. The only prerequisite is a firm understanding of basic machining practice as it applies to operations performed on CNC machining centers.

Programming key concepts: Know your machine from a programmer's viewpoint, prepare to write programs, motion types, compensation types, program formatting, special programming features **Operation key concepts:** Know your machine from an operator's viewpoint, the three operation modes, key operation procedures, verifying CNC programs Whether you already work for a manufacturing company that uses CNC machining centers, or if you are enrolled in a technical school's CNC curriculum, Machining Center Programming And Operation will give you the skills you need to ensure safe, smooth operation of your CNC machine tools.

CC - MCPO-M Machining Center Programming **\$70.00**

CC - MCPO-WA Workbook/Answer combo for above **\$49.90**



Setup Reduction For CNC Machining & Turning Centers

135 pages - published by CNC Concepts

Setup reduction is an important facet of any manufacturing company's continuous improvement program. It's mandatory if you expect to respond to shortened lead times, smaller lot sizes, and higher quality expectations. Every CNC person should understand the principles of setup reduction and be able to recognize potential improvements. Order yours today!

CC - STR-M Setup Reduction for CNC **\$50.00**



Cycle Time Reduction For CNC Machining & Turning Centers

145 pages - published by CNC Concepts

Unless your machine is down for setup, it's in production! In this comprehensive self-study manual, we make anything that adds to the time it takes to complete a production run fair game for your cycle time reduction program. Chapters include Basic Premises, Cycle Time Reduction Principles, and Cycle Time Reduction Techniques.

Techniques are related to preparation and organization, load/unload, program execution, workpiece sizing, and dull tool replacement.

CC - CTR-M Cycle Time Reduction for CNC **\$50.00**



CNC Router Programming, Setup, And Operation

300 pages - published by CNC Concepts

Following the same key concepts approach and format used in our machining center programming, setup, and operation manual (above), this manual covers the practical basics of woodworking CNC router usage. When purchased with the companion workbook/answer combination, this product becomes an inexpensive self study course!

CC - RPO-M CNC Router Programming **\$60.00**

CC - MCPO-WA Workbook/Answer combo for above **\$39.90**



Turning Center Programming, Setup, And Operation

393 pages - 55 illustrations - published by CNC Concepts

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 machine tools in manufacturing. This text utilizes this unique approach to introduce you to the method of programming and operation that can be applied to the most common form of turning center (two axis turret style turning centers).

This step-by-step tutorial offers coverage of this popular form of CNC equipment in a way anyone can understand. The only prerequisite is a firm understanding of basic machining practice as it applies to operations performed on CNC turning centers.

Programming key concepts: Know your machine from a programmer's viewpoint, prepare to write programs, motion types, compensation types, program formatting, special programming features **Operation key concepts:** Know your machine from an operator's viewpoint, the three operation modes, key operation procedures, verifying CNC programs Whether you already work for a manufacturing company that uses CNC turning centers, or if you are enrolled in a technical school's CNC curriculum, Turning Center Programming And Operation will give you the skills you need to ensure safe, smooth operation of your CNC machine tools.

CC - TCPO-M Turning Center Programming **\$70.00**

CC - TCPO-WA Workbook/Answer combo for above **\$49.90**



Parametric Programming for CNC Machine tools (soft cover)

240 pages - published by CNC Concepts

Covering what we still consider to be CNC's best kept secret, this intensive manual presents three versions of parametric programming: Fanuc's custom macro B, Okuma's user task 2, and Fadal's macro. You'll find great tutorial presentations, as well as plenty of examples to stress key points.

Almost all CNC-using companies have applications that fall into one or more of the five application categories for parametric programming: part families, user created canned cycles, utilities, complex motions, and driving accessory devices.

We discuss the computer related feature of parametric programming (variables, arithmetic, and logic) as well as the CNC related features (most handled by system variables). When purchased with the workbook/answer combination, this product becomes an inexpensive self study course!

CC - PP-M Parametric Programming **\$60.00**

CC - PP-WA Workbook/Answer combo for above **\$39.90**



Maximizing CNC Utilization

640 pages - published by CNC Concepts

This encyclopedia of CNC usage contains 8 comprehensive modules! Basic Premises, Review of Basics, Advanced Implications of Basic Features, Advanced Features and Techniques, Parametric Programming, Setup Time Reduction, Cycle Time Reduction, & Spindle Probe Programming. Just about every topic of CNC is covered!

If you're looking for ways to improve your CNC environment, you shouldn't be without this helpful guide.

CC - MCNC-M Maximizing CNC Utilization **\$120.00**

The Optional Stop Newsletter

You can download this newsletter free of charge from our web site (www.cncci.com) beginning from issue 50. Purchase back issues before issue 50 for ten dollars each or back issues 1-50 for \$199.00!

OS-BU Back issues from one through fifty **\$199.00**