

CNC Programming Using Fanuc Custom Macro B (Mechanical Engineering)



Synopsis

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, 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

Book Information

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Customer Reviews

Prof. S. K. Sinha earned his Ph.D. in Mechanical Engineering from Indian Institute of Technology, Kanpur in 1993. He has 25 years of teaching experience, and has been working in the CNC area for over 15 years. Apart from this book, he has published several e-books (Kindle Edition) in the series "CNC Programming Skills." Read "More About the Author" for details. The latest in this series explains in detail G71 and G72 on a Fanuc lathe or a similar machine. It is now available for

download.

Assuming familiarity with conventional parts programming as well as some experience with procedure oriented computer programming like old BASIC or FORTRAN this text is indeed self contained and designed for self study. I would recommend keeping a text like Smid's or Lynch's handy in case you need to refresh your memory on an occasional M or G code but I found his side notes adequate here. With Macro programming you can use the more advanced mathematical functions like are used in FORTRAN to cut parts with more detailed geometries. Shapes may have to be cut using iterations for example as in lofting or skinning. Macro can essentially do everything that can be done with CAM software. With CAM you're likely paying for a developer's expertise in differential geometry as well as his programming expertise in implementing it in the CAM environment. Anyway the end product is still in M and G codes so nothing is alien here. It's a good skill to learn and you're really only limited by your own imagination.

There is absolutely no wasted space in the 200+ pages here. Covers mostly everything, and gives you an understanding of the macro concept well enough to continue developing your understanding on your own. Since reading I have devised 2 practical macro applications in the shop I work in. It is necessary to be familiar with the cnc process already and the codes that accompany the process, but once you are this book expands your knowledge well beyond that of your peers. Some subjects are rather complex that relate to more advanced features of macros (communicating with external devices, PLC's and the like) but that gives you an idea of where to go after mastering the macro language.

This covers a lot of introductory aspects of macro programming like construction, and how to layout code, and defines the characters and functions well as advanced stuff. I bought this book because I recently got a job that uses macros. the only thing I did not like about the book is the lack simplicity and understanding of some of the examples. I just found they didn't dumb it down enough for the new guys or i would have given 4 stars. i think it is a must have for reference with macro programming.

This book is great full of info it gets my highest rating I have talked to this man on a couple of forums I am on he is really smart it is a must have book for every CNC Programmer.

Great Information to know!

If you want to learn Fanuc Macro Programming this book will help. I use it constantly as a reference.

The author describes in simple and easy to understand language about the extraordinary potential of macro programming. This guy really knows what he is talking about and this is by far the best book on macro programming that I have ever come across.

this is a great book for the CNC programmer who wants to go beyond basic G&M code programming and maximize machine capability.

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