Introduction to Computer Numerical Control (CNC) (2nd Edition)

James V. Valentino, Joseph Goldenberg

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Using a practical, step-by-step approach and language that is easy for beginners to understand, this book gradually develops the most fundamental concepts in CNC (Computer Numerical Control) technology--with a focus on word address (G and M code) programming for the industry standard Fanuc controllers. Features over 85 completely solved, thoroughly tested programming examples--each program conveniently listed with all explanations appearing on the same page. Contains an abundance of flowcharts, Illustrations, and photographs, and a full chapter on right-triangle trigonometry. Modern Machine Tool Controls. Tooling for Hole and Milling Operations. Exploring Features of CNC Machining Centers. Basics of Blueprint Reading for CNC Programmers. Mathematics for CNC Programming. An Overview of CNC Shop Activities. Word Address Programming. Programming Hole Operations. Programming Linear Profiles. Programming Circular Profiles. Programming with Cutter Diameter Compensation. Programming with Subprograms. Introduction to the CNC Lathe. Fundamental Concepts of CNC Lathe Programming. Techniques and Fixed Cycles for CNC Lathe Programming. Modern Computer-Aided Part Programming. Elements of the Computer-Controlled Factory. Appendices cover safety shop rules; G and M codes for Fanuc controllers; recommended speeds and feeds for drilling, milling, and turning; important, easy-to-use machining formulas; glossary of CNC terms. For anyone wanting to learn the basics of Computer Numerical Control, particularly word address programming for Fanuc controllers.

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