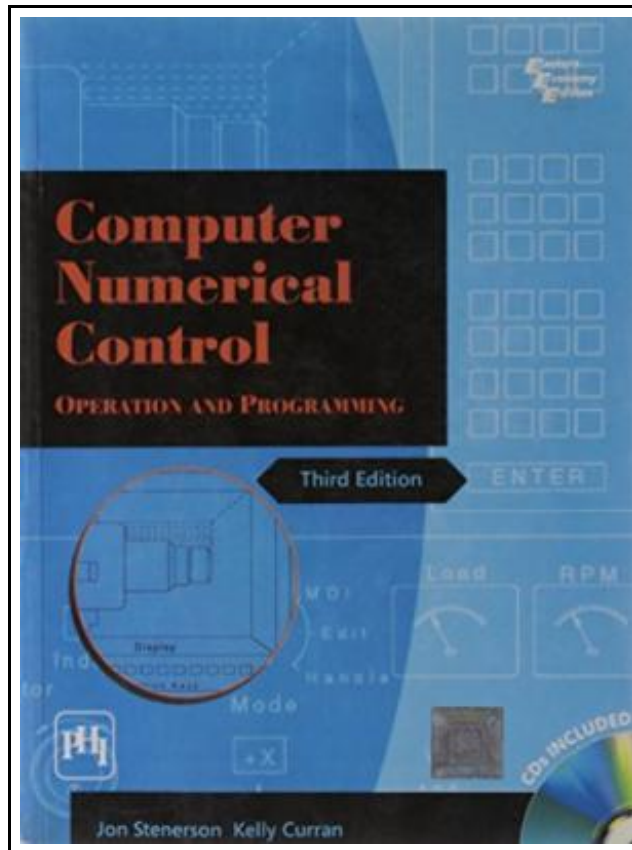# Computer Numerical Control: Operation and Programming, Third Edition

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Reviews

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COMPUTER NUMERICAL CONTROL: OPERATION AND PROGRAMMING, THIRD EDITION

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PHI Learning, 2007. Softcover. Book Condition: New. 3rd edition. Based on the authors? years of classroom and industry teaching experience, this practical text features a wealth of examples, exercises, and step-by-step processes to help students master Computer Numerical Control (CNC) operation and programming. The book covers machining fundamentals as well as CNC programming and operation of CNC machine tools-reflecting manufacturers? growing need to integrate computers into their production processes. This third edition includes major changes in the programming chapters. The whole text is organized into three sections (G-Code Programming; Conversational Programming; and Quality) and has been updated throughout while maintaining its trademark logical and easy-to-understand approach. FEATURES NEW TO THE THIRD EDITION : ? New chapter on abrasive waterjet and laser machining. ? A new student CD that offers programming tutorials for the Okuma machining centers, Okuma turning centers, Milltronics mill, and Bridgeport EZ-Path lathe. ? A second new student CD that offers a student version of Predator Editor and Predator Virtual CNC to help students write and simulate 3D computer programs. ? Many additional questions and exercises that logically lead the student through step-by-step processes to learn to write CNC code. CONTENTS Preface Acknowledgments Section I G-CODE PROGRAMMING Chapter 1 Introduction to Computer Numerical Control Chapter 2 Basic Trigonometry Chapter 3 Carbide Fundamentals Chapter 4 Fundamentals of Programming Chapter 5 Programming Examples Chapter 6 Work Holding and Tooling for Machining Centers Chapter 7 Fundamentals of Machining Centers Chapter 8 Programming Machining Centers Chapter 9 CNC Turning Machines Chapter 10 Programming CNC Turning Machines Chapter 11 Electrical Discharge Machining (EDM) Chapter 12 Abrasive Waterjet and Laser Cutting Chapter 13 Fundamentals of CAD/CAM Section II CONVERSATIONAL PROGRAMMING Chapter 14 Introduction to Mazatrol Programming Chapter 15 Introduction to Fanuc FAPT Programming Section III QUALITY Chapter 16 Fundamentals of Statistical Process Control Chapter...

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