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Nota di contenuto	Cover (Student Workbook for Programming of CNC Machines 4th Edition) -- Front Matter -- Title Page -- Copyright -- Table of Contents -- Acknowledgments -- About the Author -- Preface -- Unit 1: CNC Basics -- Process Planning -- Feeds and Speeds -- Coordinate Systems -- Trigonometric Calculations -- Study Questions: CNC Basics -- Unit 2: Setup and Operation -- General Steps -- Operation Scenarios -- MDI Usage -- Programmable Editing -- Study Questions: Setup and Operation -- Unit 3: CNC Turning Center Programming -- CNC Turning Center Program Template -- CNC Turning Center Tool List -- Identifying Programming Coordinates for Turning -- Linear Interpolation -- Programming Exercise 3-1 -- Programming Exercise 3-2 -- Programming Exercise 3-3 -- Programming Exercise 3-4 -- Linear and Circular Interpolation -- Programming Exercise 3-5 -- Programming Exercise 3-6 -- Tool Nose Radius Compensation -- Programming Exercise 3-7 -- Programming Exercise 3-8 -- Programming Exercise 3-9 -- Drilling -- Programming Exercise 3-10 -- Programming Exercise 3-11 -- Multiple Repetitive Cycles -- Programming Exercise 3-12 -- Boring -- Programming Exercise 3-13 -- Programming Exercise 3-14 -- Programming Exercise 3-15 -- Programming Exercise 3-16 -- Grooving -- Programming Exercise 3-17 -- OD Threading -- Programming Exercise 3-18 -- CNC Turning Center Subprogram Application -- Programming Exercise 3-19 -- CNC Turning Center Combined Projects -- Programming Exercise 3-20 --

CNC Turning Center Program Error Diagnosis -- Unit 4: CNC Machining Center Programming -- CNC Machining Center Programming Template -- CNC Machining Center Tool List -- Identifying Programming Coordinates for Milling -- Linear Interpolation on the CNC Machining Center -- Face Milling -- Programming Exercise 4-1 -- Programming Exercise 4-2 -- Contour Milling -- Programming Exercise 4-3. Circular Interpolation -- Programming Exercise 4-4 -- Programming Exercise 4-5 -- Circle Milling -- Programming Exercise 4-6 -- Cutter Diameter Compensation -- Programming Exercise 4-7 -- Programming Exercise 4-8 -- Programming Exercise 4-9 -- Programming Exercise 4-10 -- Canned Cycles -- Programming Exercise 4-11 -- Programming Exercise 4-12 -- Programming Exercise 4-13 -- Programming Exercise 4-14 -- CNC Machining Center Combined Projects -- Programming Exercise 4-15 -- CNC Machining Center Subprogram Application -- Programming Exercise 4-16 -- Programming Exercise 4-17 -- CNC Machining Center Program Error Diagnosis -- Answer Key -- Answers to Unit 1: CNC Basics -- Process Planning Answers -- Feeds and Speeds Answers -- Coordinate Systems Answers -- Trigonometric Calculations Answers -- CNC Basics Study Question Answers -- Answers to Unit 2: Setup and Operation -- General Steps Answers -- Operation Scenario Answers -- MDI Usage Answers -- Programming Editing Answers -- Setup and Operation Study Question Answers -- Answers to Unit 3: CNC Turning Center Programming -- Identifying Programming Coordinates for Turning Answers -- Linear Interpolation Answers -- Programming Exercise 3-1 Answer -- Programming Exercise 3-2 Answer -- Programming Exercise 3-3 Answer -- Programming Exercise 3-4 Answer -- Linear and Circular Interpolation Answers -- Programming Exercise 3-5 Answer -- Programming Exercise 3-6 Answer -- Tool Nose Radius Compensation Answers -- Programming Exercise 3-7 Answer -- Programming Exercise 3-8 Answer -- Programming Exercise 3-9 Answer -- Drilling Answers -- Programming Exercise 3-10 Answer -- Programming Exercise 3-11 Answer -- Multiple Repetitive Cycles -- Programming Exercise 3-12 Answer -- Boring Answers -- Programming Exercise 3-13 Answer -- Programming Exercise 3-14 Answer -- Programming Exercise 3-15 Answer. Programming Exercise 3-16 Answer -- Grooving Answers -- Programming Exercise 3-17 Answer -- OD Threading Answers -- Programming Exercise 3-18 Answer -- CNC Turning Center Subprogram Application Answers -- Programming Exercise 3-19 Answer -- CNC Turning Center Combined Projects Answers -- Programming Exercise 3-20 Answer -- CNC Turning Center Program Error Diagnosis Answers -- Answers to Unit 4: CNC Machining Center Programming -- CNC Machining Center Tool List -- Identifying Programming Coordinates for Milling Answers -- Linear Interpolation on the CNC Machining Center -- Face Milling Answers -- Programming Exercise 4-1 Answer -- Programming Exercise 4-2 Answer -- Contour Milling Answers -- Programming Exercise 4-3 Answer -- Circular Interpolation Answers -- Programming Exercise 4-4 Answer -- Programming Exercise 4-5 Answer -- Circle Milling Answers -- Programming Exercise 4-6 Answer -- Cutter Diameter Compensation Answers -- Programming Exercise 4-7 Answer -- Programming Exercise 4-8 Answer -- Programming Exercise 4-9 Answer -- Programming Exercise 4-10 Answer -- Canned Cycles Answers -- Programming Exercise 4-11 Answer -- Programming Exercise 4-12 Answer -- Programming Exercise 4-13 Answer -- Programming Exercise 4-14 Answer -- CNC Machining Center Combined Projects Answers -- Programming Exercise 4-15 Answer -- CNC Machining

Center Subprogram Application Answers -- Programming Exercise 4-16 Answer -- Programming Exercise 4-17 Answer -- CNC Machining Center Program Error Diagnosis Answers -- Index.

Sommario/riassunto

Written by an author with many years of experience teaching CNC machining, this workbook is the perfect complement to Programming of CNC Machines, 4th edition. It is filled with many practical exercises and is one of the few workbooks available that tests users through the application of programming functions commonly used in CNC programming. Together with its companion text, this workbook can be used as a complete CNC training program; or, it can be used on its own by students or professionals to verify that they have the basic skills needed to write a CNC program.
