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This book will teach you all the important concepts and steps used to conduct machining simulations using SOLIDWORKS CAM. SOLIDWORKS CAM is a parametric, feature-based machining simulation software offered as an add-in to SOLIDWORKS. It integrates design and manufacturing in one application, connecting design and manufacturing teams through a common software tool that facilitates product design using 3D solid models. By carrying out machining simulation, the machining process can be defined and verified early in the product design stage. Some, if not all, of the less desirable design features of part manufacturing can be detected and addressed while the product design is still being finalized. In addition, machining-related problems can be detected and eliminated before mounting a stock on a CNC machine, and manufacturing cost can be estimated using the machining time estimated in the machining simulation. This book is intentionally kept simple. It's written to help you become familiar with the practical applications of conducting machining simulations in SOLIDWORKS CAM. This book provides you with the basic concepts and steps needed to use the software, as well as a discussion of the G-codes generated. After completing this book, you should have a clear understanding of how to use SOLIDWORKS CAM for machining simulations and should be able to apply this knowledge to carry out machining assignments on your own

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the directions available in the preface of the book. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This invaluable, all-in-one guide provides a thorough introduction to web design and development with Adobe Dreamweaver CS6, Adobe Flash CS6, and Adobe FireworksCS6. In addition to detailed information on the current interface, features, and functionality of each program, the book includes step-by-step tutorials and hands-on projects to help you master industry-leading software while honing practical skills with real-world relevance. The book concludes with a chapter devoted to integration of all three applications to create a dynamic website incorporating Flash and Fireworks elements. In addition to accurate, up-to-date content, the book features full-color illustrations and an appealing, user-friendly presentation style to facilitate learning and make even complex material easier to master. The Data Files used to complete the projects found in the book are now available online. For access information please refer to the directions available in the preface of the book. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. • Teaches you how to prevent problems, reduce manufacturing costs, shorten production time, and improve estimating • Designed for users new to CAMWorks with basic knowledge of manufacturing processes • Covers the core concepts and most frequently used commands in CAMWorks • Incorporates cutter location data verification by reviewing the generated G-codes This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks. CAMWorks is a virtual machining tool designed to increase your productivity and

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fluctuations of opinion. One would suppose from this that on questions of justice there could be no controversy; that if we take that for our rule, its application to any given case could leave us in as little doubt as a mathematical demonstration. This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks. CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating a physical product. CAMWorks is embedded in SOLIDWORKS as a fully integrated module. CAMWorks provides excellent capabilities for machining simulations in a virtual environment. Capabilities in CAMWorks allow you to select CNC machines and tools, extract or create machinable features, define machining operations, and simulate and visualize machining toolpaths. In addition, the machining time estimated in CAMWorks provides an important piece of information for estimating product manufacturing cost without physically manufacturing the product. The book covers the basic concepts and frequently used commands and options you'll need to know to advance from a novice to an intermediate level CAMWorks user. Basic concepts and commands introduced include extracting machinable features (such as 2.5 axis features), selecting machine and tools, defining machining parameters (such as feedrate), generating and simulating toolpaths, and post processing CL data to output G-codes for support of CNC machining. The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples. Both milling and turning operations are included. One of the unique features of this book is the incorporation of the CL (cutter location) data verification by reviewing the G-codes generated from the

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