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# SOLIDWORKS 2016 Advanced Techniques



## Synopsis

SOLIDWORKS 2016 Advanced Techniques picks up where SOLIDWORKS 2016 Intermediate Skills leaves off. Its aim is to take you from an intermediate user with a basic understanding of SOLIDWORKS and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SOLIDWORKS. The text covers parts, surfaces, SimulationXpress, sheet metal, top-down assemblies and core and cavity molds. Every lesson and exercise in this book was created based on real world projects. Each of these projects have been broken down and developed into easy and comprehensible steps for the reader. Furthermore, at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SOLIDWORKS, inside and out, the reader should create everything from the beginning and take it step by step. Who this book is for This book is for the intermediate to advanced user who has already completed the SOLIDWORKS Basic Tools book and may have also completed the SOLIDWORKS Intermediate Skills book. People who are very familiar with SOLIDWORKS and its add ins will also find this book to be a valuable resource. Table of Contents Advanced Modeling Topics 1. Introduction to 3D Sketch 2. Plane Creation 3. Advanced Modeling 5/8 Spanner 4. Sweep with Composite Curves Helical Ext. Spring Using Variable Pitch 5. Advanced Modeling with Sweep & Loft 6. Loft vs. Sweep Water Meter Housing 7. Loft with Guide Curves Waved Washer Advanced Sweep - Wire Form 8. Using Surfaces Advanced Modeling Lofted Surface Remote Control Casing 9. Advanced Surfaces Offset Surface & Ruled Surface 10. Using Filled Surfaces Boundary and Freeform Surfaces 11. Surfaces vs. Solid Modeling Safety Helmet 12. SimulationXpress 5/8 Spanner Sheet Metal Topics 13. Sheet Metal Parts Post Cap Sheet Metal Parts Vents 14. Sheet Metal Forming Tools Button with Slots Designing Sheet Metal Parts Mounting Tray 15. Sheet Metal Conversions Sheet Metal Gussets Flat Pattern Stent Stent Sample - Sheet Metal Approach 16. Working with Sheet Metal STEP Files Adding Parts to the Toolbox Library Weldments Structural Members Top-Down Assembly Topics 17. Core & Cavity Linear Parting Lines Mold Tooling Non Linear Parting Lines 18. Top-Down Assembly - Miniature Vise 19. Top-Down Assembly Water Control Valve 20. External References & Repair Errors 21. Using Appearances and Textures 22. CSWP Core Preparation Practice Glossary Index SOLIDWORKS 2016 Quick-Guides

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