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Parametric Modeling With Autodesk Inventor 2018



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Synopsis

Parametric Modeling with Autodesk Inventor 2018 contains a series of sixteen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2018 Certified User Examination. Table of Contents 1. Getting Started 2. Parametric Modeling Fundamentals 3. Constructive Solid Geometry Concepts 4. Model History Tree 5. Parametric Constraints Fundamentals 6. Geometric Construction Tools 7. Parent/Child Relationships and the BORN Technique 8. Part Drawings and 3D Model-Based Definition 9. Datum Features and Auxiliary Views 10. Introduction to 3D Printing 11. Symmetrical Features in Designs 12. Advanced 3D Construction Tools 13. Sheet Metal Designs 14. Assembly Modeling - Putting It All Together 15. Content Center and Basic Motion Analysis 16. 2D Design Reuse, Collision and Contact 17. Introduction to Stress Analysis Appendix Index

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