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# INVENTOR

Introduction to Solid Modeling - Part 1





Learning Guide Mixed Units Edition 1.0

# **Autodesk Inventor 2013 Introduction To Solid Modeling Part**

**RD Boyd** 

# **Autodesk Inventor 2013 Introduction To Solid Modeling Part:**

Autodesk Inventor 2019 ASCENT - Center for Technical Knowledge, 2018-03-25 Note This book is a continuation of Autodesk Inventor 2019 Introduction to Solid Modeling Part 1 The Autodesk R Inventor R 2019 Introduction to Solid Modeling learning guide provides you with an understanding of the parametric design philosophy through a hands on practice intensive curriculum You will learn the key skills and knowledge needed to design models using Autodesk Inventor starting with conceptual sketching through to solid modeling assembly design and drawing production Topics Covered Understanding the Autodesk R Inventor R software interface Creating constraining and dimensioning 2D sketches Creating and editing the solid base 3D feature from a sketch Creating and editing secondary solid features that are sketched and placed Creating equations and working with parameters Manipulating the display of the model Resolving feature failures Duplicating geometry in the model Placing and constraining connecting parts in assemblies Manipulating the display of components in an assembly Duplicating components in an assembly Obtaining model measurements and property information Creating Presentation files Exploded views and Animations Modifying and analyzing the components in an assembly Simulating motion in an assembly Creating parts and features in assemblies Creating and editing an assembly Bill of Materials Working with projects Creating and annotating drawings and views Customizing the Autodesk Inventor environment Prerequisites Access to the 2019 version of the software The practices and files included with this guide might not be compatible with prior versions As an introductory learning guide Autodesk Inventor 2019 Introduction to Solid Modeling does not assume prior knowledge of any 3D modeling or CAD software Students do need to be experienced with the Windows operating system and a background in drafting of 3D parts is recommended **Introduction to Autodesk** Inventor 2013 and AutoCAD 2013 Randy Shih, 2012 Most schools using Autodesk software first introduce students to the 2D features of AutoCAD and then go on to its 3D Capabilities Inventor is usually reserved for the second or third course or for a solid modeling course However another possibility is to introduce students first to solid modeling using Autodesk Inventor and then to introduce AutoCAD as a 2D product In this book students learn to create solid models using Autodesk Inventor and then learn how to create working drawings of their 3D models using AutoCAD This approach provides students with a strong understanding of the process used by many professionals in the industry to create models and working drawings This book contains a series of tutorial style lessons designed to introduce Autodesk Inventor AutoCAD solid modeling and parametric modeling It uses a hands on exercise intensive approach to all the import 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 An Introduction to Inventor 2013 and AutoCAD 2013 consists of eleven chapters from Parametric Modeling with Inventor 2013 and six chapters from AutoCAD 2013 Tutorial First Level 2D Fundamentals Both of these books are highly regarded and are very popular making this book an exceptional value for

anyone interested in learning both software packages Autodesk Inventor 2020: Introduction to Solid Modeling (Mixed Units) - Part 1 ASCENT - Center for Technical Knowledge, 2019-03-26 Note This book is continued in Autodesk R Inventor R 2020 Introduction to Solid Modeling Part 2 The Autodesk R Inventor R 2020 Introduction to Solid Modeling guide provides you with an understanding of the parametric design philosophy through a hands on practice intensive curriculum You will learn the key skills and knowledge required to design models using Autodesk Inventor starting with conceptual sketching through to solid modeling assembly design and drawing production Topics Covered Understanding the Autodesk Inventor software interface Creating constraining and dimensioning 2D sketches Creating and editing the solid base 3D feature from a sketch Creating and editing secondary solid features that are sketched and placed Creating equations and working with parameters Manipulating the display of the model Resolving feature failures Duplicating geometry in the model Placing and constraining connecting parts in assemblies Manipulating the display of components in an assembly Obtaining model measurements and property information Creating Presentation files Exploded views Modifying and analyzing the components in an assembly Simulating motion in an assembly Creating parts and features in assemblies Creating and editing an assembly Bill of Materials Working with projects Creating and annotating drawings and views Customizing the Autodesk Inventor environment Prerequisites Access to the 2020 version of the software The practices and files included with this guide might not be compatible with prior versions As an introductory guide Autodesk R Inventor R 2020 Introduction to Solid Modeling does not assume prior knowledge of any 3D modeling or CAD software You need to be experienced with the Windows operating system and having a background in drafting of 3D parts is recommended Autodesk Inventor 2020: Introduction to Solid Modeling (Mixed Units) - Part 2 ASCENT - Center for Technical Knowledge, 2019-03-26 Note This book is a continuation of Autodesk R Inventor R 2020 Introduction to Solid Modeling Part 1 The Autodesk R Inventor R 2020 Introduction to Solid Modeling guide provides you with an understanding of the parametric design philosophy through a hands on practice intensive curriculum You will learn the key skills and knowledge required to design models using Autodesk Inventor starting with conceptual sketching through to solid modeling assembly design and drawing production Topics Covered Understanding the Autodesk Inventor software interface Creating constraining and dimensioning 2D sketches Creating and editing the solid base 3D feature from a sketch Creating and editing secondary solid features that are sketched and placed Creating equations and working with parameters Manipulating the display of the model Resolving feature failures Duplicating geometry in the model Placing and constraining connecting parts in assemblies Manipulating the display of components in an assembly Obtaining model measurements and property information Creating Presentation files Exploded views Modifying and analyzing the components in an assembly Simulating motion in an assembly Creating parts and features in assemblies Creating and editing an assembly Bill of Materials Working with projects Creating and annotating drawings and views Customizing the Autodesk Inventor environment Prerequisites Access to the 2020 version of the software The

practices and files included with this guide might not be compatible with prior versions As an introductory guide Autodesk R Inventor R 2020 Introduction to Solid Modeling does not assume prior knowledge of any 3D modeling or CAD software You need to be experienced with the Windows operating system and having a background in drafting of 3D parts is recommended

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approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of fifteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphic language used in all branches of technical industry This book does not attempt to cover all of Autodesk Inventor 2014 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering Autodesk Inventor 2014 Certified User Examination The content of this book covers the performance tasks that have been identified by Autodesk as being included on the Autodesk Inventor 2014 Certified User examination Special reference guides show students where the performance tasks are covered in the book If you are teaching an introductory level Autodesk Inventor course and you want to prepare your students for the Autodesk Inventor 2014 Certified User Examination this is the only book that you need If your students are not interested in the Autodesk Inventor 2014 Certified User Exam they will still be studying the most important tools and techniques of Autodesk Inventor as identified by Autodesk For detailed information on the Autodesk Inventor Certified User examination visit www autodesk com certification AutoCAD 2013 Tutorial -Second Level: 3D Modeling Randy H. Shih, 2012 The primary goal of AutoCAD 2013 Tutorial Second Level 3D Modeling is to introduce the aspects of computer based three dimensional modeling This text is intended to be used as a training guide for both students and professionals The chapters in this book cover AutoCAD 2013 and proceed in a pedagogical fashion to guide you from constructing 3D wire frame models 3D surface models and 3D solid models to making multiview drawings and rendering images. The text takes a hands on exercise intensive approach to all the important 3D modeling techniques and concepts This book contains a series of twelve tutorial style chapters designed to introduce CAD users to 3D modeling with AutoCAD 2013 Users upgrading from a previous release of the AutoCAD software will also find this text helpful The basic premise of this book is that the more 3D designs you create using AutoCAD 2013 the better you learn the software With this in mind each tutorial introduces a new set of commands and concepts building on previous chapters By going through this book readers will establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

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