

# Autodesk Maya Document Guide

A Complete Toolbox of Theories and Techniques The second edition of a bestseller, Handbook of Virtual Environments: Design, Implementation, and Applications presents systematic and extensive coverage of the primary areas of research and development within VE technology. It brings together a comprehensive set of contributed articles that address the principles required to define system requirements and design, build, evaluate, implement, and manage the effective use of VE applications. The contributors provide critical insights and principles associated with their given areas of expertise to provide extensive scope and detail on VE technology and its applications. What's New in the Second Edition: Updated glossary of terms to promote common language throughout the community New chapters on olfactory perception, avatar control, motion sickness, and display design, as well as a whole host of new application areas Updated information to reflect the tremendous progress made over the last decade in applying VE technology to a growing number of domains This second edition includes nine new, as well as forty-one updated chapters that reflect the progress made in basic and applied research related to the creation, application, and evaluation of virtual environments. Contributions from leading researchers and practitioners from multidisciplinary domains provide a wealth of theoretical and practical information, resulting in a complete toolbox of theories and techniques that you can rely on to develop more captivating and effective virtual

worlds. The handbook supplies a valuable resource for advancing VE applications as you take them from the laboratory to the real-world lives of people everywhere.

**Character Animation** Before you animate the characters and objects in your scene, set up the scene by rigging all your characters and by applying the appropriate constraints and deformers to all the objects you want to animate. Rigging a character, also known as character setup, involves creating skeletons and IK handles for your characters, binding skins to the skeletons, and setting up deformers and constraints. You can also create deformers for your character and animate them to produce effects; for example, the jiggling belly (jiggle deformer), frowning brow (wire deformer), and flexing biceps (lattice deformer) of a sumo wrestler model. Non-character objects are also very important to bringing your scene to life. You can limit and control the transformations of objects by constraining them to characters or other models in your scene. You can also create deformers for objects to create complex deformation effects. For example, you can apply a squash deformer to the model of a ball and then parent constrain the ball to the hands of a character. With this setup, you can key the weights of the character's hands and the squash deformer's attributes to create an animation of the character bouncing the ball from hand to hand while the ball squashes on the ground and stretches as it rises back into the air. In addition to setting up characters and objects for animation, you can set up Maya® Dynamics™ for animation. You can constrain dynamic objects such as particle emitters,

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fields, and fluids to objects or characters in your scene. For more information, see nDynamics Simulation Framework and Fluid Effects.

Autodesk Maya 2019 is a powerful, integrated 3D modeling, animation, visual effects, and rendering software developed by Autodesk Inc. This integrated node based 3D software finds its application in the development of films, games, and design projects. A wide range of 3D visual effects, computer graphics, and character animation tools make it an ideal platform for 3D artists. The intuitive user interface and workflow tools of Maya 2019 have made the job of design visualization specialists a lot easier. Autodesk Maya 2019: A Comprehensive Guide book covers all features of Autodesk Maya 2019 software in a simple, lucid, and comprehensive manner. It aims at harnessing the power of Autodesk Maya 2019 for 3D and visual effect artists, and designers. This Autodesk Maya 2019 book will help you transform your imagination into reality with ease. Also, it will unleash your creativity, thus helping you create realistic 3D models, animation, and visual effects. It caters to the needs of both the novice and advanced users of Maya 2019 and is ideally suited for learning at your convenience and at your pace. Salient Features: Consists of 17 chapters that are organized in a pedagogical sequence covering a wide range of topics such as Maya interface, Polygon modeling, NURBS modeling, texturing, lighting, cameras, animation, Paint Effects, Rendering, nHair, Fur, Fluids, Particles, nParticles and Bullet Physics in Autodesk Maya 2019. The first page of every chapter summarizes the topics

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that are covered in it. Consists of hundreds of illustrations and a comprehensive coverage of Autodesk Maya 2019 concepts & commands. Real-world 3D models and examples focusing on industry experience. Step-by-step instructions that guide the user through the learning process. Additional information is provided throughout the book in the form of tips and notes. Self-Evaluation test, Review Questions, and Exercises are given at the end of each chapter so that the users can assess their knowledge. Table of Contents Chapter 1: Exploring Maya Interface Chapter 2: Polygon Modeling Chapter 3: NURBS Curves and Surfaces Chapter 4: NURBS Modeling Chapter 5: UV Mapping Chapter 6: Shading and Texturing Chapter 7: Lighting Chapter 8: Animation Chapter 9: Rigging, Constraints, and Deformers Chapter 10: Paint Effects Chapter 11: Rendering Chapter 12: Particle System Chapter 13: Introduction to nParticles Chapter 14: Fluids Chapter 15: nHair Chapter 16: Bifrost Chapter 17: Bullet Physics Index

Expand your skills with complete Maya mastery Mastering Autodesk Maya is the ultimate guide to the popular 3D animation software. Author Todd Palamar draws on his extensive professional animation experience to help readers take their Maya skills to the next level. Written for those who already know the basics of this enormous program, the book covers advanced topics and professional techniques for modeling, animation, texturing, and visual effects. Fully updated to reflect Maya's latest features, the book takes a hands-on approach to instruction, providing readers with a diverse

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set of tutorials designed by real-world professionals to showcase 3D animation and visual techniques used in industry settings. Complete and comprehensive, the book makes an excellent desk reference for the working animator, and is an ideal resource for those seeking Maya certification. The unique combination of challenging material and practical instruction make this one-of-a-kind guide the ultimate Maya handbook. Topics include: Animation using inverse kinematics, keyframes, and deformers Hard surface and organic modeling Proper rigging techniques, and working with Maya Muscle Xgen, Paint Effects, and rendering with mental ray Texture mapping, compositing, nParticles, and more Virtual filmmaking and scene management The most complex skills are useless if they can't be applied, so the book emphasizes the practical, day-to-day uses of each skill, and discusses which solutions best fit which scenario. For the computer animation professional seeking a more in-depth mastery of this popular animation program, Mastering Autodesk Maya is an excellent investment in the future of your career. Hands-on intermediate-to-advanced coverage of the leading 3D software Autodesk Maya is the industry-leading 3D animation and effects software used in movies, visual effects, games, and other genres. If you already know the basics of Maya and are ready to elevate your skills, then this book is for you. Nearly 1,000 pages are packed with organized, professional, and valuable insight on the leading 3D application on the market, enabling you to unlock the software's more complex features. Ideal as both a tutorial and study

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guide for the Autodesk Maya exam, this Autodesk Official Press book gets you up to speed on Maya's latest features and expands your skills with advanced instruction on cloth, fur, and fluids. Features challenging tutorials and real-world scenarios from some of the leading professionals in the industry Provides you with valuable insight into the entire CG production pipeline Covers the very latest Maya 2014 tools and features, including updates to dynamics, Maya muscle, stereo cameras, assets, rendering with mental ray, and more Helps you gain proficiency in high-level techniques for film, television, game development, and more If you've been looking for a complete, professional quality Maya resource to turn to again and again, look no further than Mastering Autodesk Maya 2104.

Written by renowned author and 3D artist Kelly L. Murdock, Autodesk Maya 2022 Basics Guide is designed to give new users a solid understanding of the fundamental skills needed to create beautiful 3D models and stunning animations with Autodesk Maya. Using clear and easy to follow instructions this book will guide you through learning all the major features of Maya. The text is complemented by video instruction. Each chapter has a corresponding video tutorial that introduces you to the topics and allows you to watch and learn how functions are performed in a way that a text alone cannot do. Autodesk Maya 2022 Basics Guide makes no assumptions about your previous experience with Autodesk Maya. It begins by helping you get comfortable with the user interface and navigating scenes before moving into modeling, texturing, lighting, animating,

rendering and more. Additionally, more advanced features such as character rigging, skinning, animating with dynamics and MEL scripting are also introduced. Each chapter begins by examining the concept behind each task, the goal and the necessary features that are involved. Then you go in-depth with the objective of your task as you study examples and learn the steps necessary to complete it. Working your way through the comprehensive, step-by-step lessons, you'll develop the confidence you need to create incredible renderings and animations using Autodesk Maya. Who this book is for This text was created specifically for users with no prior 3D modeling or animation experience. If you want to work in a creative field or are just curious about how 3D animated movies are made this book is the perfect way to get started. Users who are migrating from another 3D application or upgrading from a previous version of Maya will also benefit greatly from this text. What you'll learn • How to create models using primitives, curves, NURBS, Polygons and more • How to assign materials and textures to make realistic-looking models • How to use Paint Effects to paint on and quickly create complex 3D Models • How to use lights, cameras, and depth of field to render captivating scenes • How to use keyframes, motion paths and the Graph Editor to create animations • How to use character rigging, skinning, and inverse kinematics to animate realistic movements • How to use various deformers to manipulate objects, animations and special effects • How to add influence objects, skin weights and hair to a character for a more realistic look • How to use dynamics to create fire, smoke, lightning,

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explosions, cloth and ocean effects • How to enable raytracing, motion blur, and fog effects for increased realism • How to render stills and animations using Maya Vector and Mental Ray for different looks • How to use the Command Line and MEL Scripting to work faster

About Autodesk Maya Maya is a program, created by Autodesk, used to model, animate, and render 3D scenes. 3D scenes created with Maya have appeared in movies, television, advertisements, games, product visualizations, and on the Web. With Maya, you can create and animate your own 3D scenes and render them as still images or as animation sequences.

Autodesk Maya 2020 is a powerful, integrated 3D modeling, animation, visual effects, and rendering software developed by Autodesk Inc. This integrated node based 3D software finds its application in the development of films, games, and design projects. The intuitive user interface and workflow tools of Maya 2020 have made the job of design visualization specialists a lot easier. Autodesk Maya 2020: A Comprehensive Guide covers all features of Autodesk Maya 2020 software in a simple, lucid, and comprehensive manner. It will unleash your creativity, thus helping you create realistic 3D models, animation, and visual effects. In this edition, new tools and enhancements in modeling, animation, rigging as well as performance improvements in bifrost are covered. Additionally, the newly introduced Mash module, which is used for creating motion graphics, is also covered in the book. Salient Features: Consists of 17 chapters that are organized in a pedagogical sequence covering a wide range of topics

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such as Maya interface, Polygon modeling, NURBS modeling, texturing, lighting, cameras, animation, Paint Effects, Rendering, nHair, Fur, Fluids, Particles, nParticles and Bullet Physics in Autodesk Maya 2020. The first page of every chapter summarizes the topics that are covered in it. Consists of hundreds of illustrations and a comprehensive coverage of Autodesk Maya 2020 concepts & commands. Real-world 3D models and examples focusing on industry experience. Step-by-step instructions that guide the user through the learning process. Additional information is provided throughout the book in the form of tips and notes. Self-Evaluation test, Review Questions, and Exercises are given at the end of each chapter so that the users can assess their knowledge. Table of Contents Chapter 1: Exploring Maya Interface Chapter 2: Polygon Modeling Chapter 3: NURBS Curves and Surfaces Chapter 4: NURBS Modeling Chapter 5: UV Mapping Chapter 6: Shading and Texturing Chapter 7: Lighting Chapter 8: Animation Chapter 9: Rigging, Constraints, and Deformers Chapter 10: Paint Effects Chapter 11: Rendering Chapter 12: Particle System Chapter 13: Introduction to nParticles Chapter 14: Fluids Chapter 15: nHair Chapter 16: Bifrost Chapter 17: Bullet Physics and Motion Graphics Index

The 2nd edition of this integrated guide explains and lists readily available graphics software tools and their applications, while also serving as a shortcut to graphics theory and programming. It grounds readers in fundamental concepts and helps them use visualization, modeling, simulation, and virtual reality to complement

and improve their work.

Learning Autodesk Maya 2008 I Foundation is your key to unlocking the power of Autodesk Maya software, directly from the creators of one of the world's most powerful 3D animation and effects software products. Get hands-on experience with the innovative tools and powerful techniques available in Autodesk Maya 2008. You'll gain a sense of the entire production process as you work on creating and animating characters from Sony Pictures Animation's feature film, Surf's Up. You'll even learn about compositing your characters into alternate environments in a bonus chapter on Autodesk Combustion software. Explore the Maya user interface, create organic structures with NURBS, apply forward and inverse kinematics, deform surfaces, learn to use Trax non-linear animation, discover rendering techniques, and so much more with this easy to follow guide to Maya. Includes bonus DVD with scene files, instructor-led podcasts, and other reference guides to give you a solid foundation in the art of animating with Maya.

Preface Hello everyone, in this book, we have reviewed all of the Autodesk Vred 2021 in detail. In our book, we will start with preparing scenes with Vred and learn about animating thinking, preparing materials, using light and camera, as well as navigating vred scenes with XR,MR,VR and AR devices. Now, let's look at the topics in our book in

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order; · User Interface · VRED Basics · Animation · Assets · Autodesk VRED App · Cameras · Collaboration · Geometry · Lights · Materials · Media · OpenGL Materials Reference · Optimize · Preferences · Python Documentation · References · Rendering · Scene Graph · Scene Interaction · Sceneplates · Simple UI · Textures · Truelight Materials Reference · UVs · Variants · XR/MR/VR and Setup Serdar Hakan DÜZGÖREN Autodesk Expert Elite | Autodesk Official Member | Autodesk Int. Moderator | Autodesk Consultant

A beautifully-packaged, advanced reference on the very latest version of Maya If you already know the basics of Maya, the latest version of this authoritative book takes you to the next level. From modeling, texturing, animation, and visual effects to high-level techniques for film, television, games, and more, this book provides professional-level Maya instruction. With pages of scenarios and examples from some of the leading professionals in the industry, this book will help you master the entire CG production pipeline. Provides professional-level instruction on Maya, the industry-leading 3D animation and effects software Covers the very latest Maya tools and features, including Dynamics, Maya Muscle, Stereo Cameras, rendering with mental ray, and more Offers complete coverage of advanced topics such as cloth, fur, and fluids Showcases the techniques of professionals through numerous examples and real-

world scenarios, showing you how to set up and manage 3D animation and visual effects pipelines. Includes a CD with all support files from the book, along with movies to illustrate concepts. If you're looking for an in-depth, professional Maya resource to turn to again and again, *Mastering Maya* is the book you need. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. For Instructors: Teaching supplements are available for this title.

Redshift is a high-performance production-quality renderer that supports biased rendering techniques for incredibly fast noise-free renders. With Redshift, you can get the rendering performance of a small render farm from your existing workstation, saving you time and money, and unleashing your creative potential. This guide provides information on setting up and using Redshift. In addition to documenting the various features and settings of Redshift, this guide provides important tips to help you get the most out of Redshift – including helping you choose the most appropriate global illumination techniques to use for a given scene and how to troubleshoot problems like splotches or flickering during animations. To navigate this guide, simply pick a topic from the Table of Contents on the left. You can also search for a specific keyword using the search box located in the top-right corner of every page. Welcome to the world of Autodesk Maya 2017.

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Autodesk Maya 2017 is a powerful, integrated 3D modeling, animation, visual effects, and rendering software developed by Autodesk Inc. This integrated node based 3D software finds its application in the development of films, games, and design projects. A wide range of 3D visual effects, computer graphics, and character animation tools make it an ideal platform for 3D artists. The intuitive user interface and workflow tools of Maya 2017 have made the job of design visualization specialists a lot easier.

Autodesk Maya 2017: A Comprehensive Guide textbook covers all features of Autodesk Maya 2017 in a simple, lucid, and comprehensive manner. It aims at harnessing the power of Autodesk Maya 2017 for 3D and visual effects artists, and designers. This textbook will help you transform your imagination into reality with ease. Also, it will unleash your creativity, thus helping you create realistic 3D models, animation, and visual effects. It caters to the needs of both the novice and advanced users of Maya 2017 and is ideally suited for learning at your convenience and at your pace.

Written by renowned author and 3D artist Kelly L. Murdock Autodesk Maya 2018 Basics Guide is designed to give new users a solid understanding of the fundamental skills needed to create beautiful 3D models and stunning animations with Autodesk Maya. Using clear and easy to follow instructions this book will guide you through learning all the major

features of Maya. The text is complemented by video instruction. Each chapter has a corresponding video tutorial that introduces you to the topics and allows you to watch and learn how functions are performed in a way that a text alone cannot do. Autodesk Maya 2018 Basics Guide makes no assumptions about your previous experience with Autodesk Maya. It begins by helping you get comfortable with the user interface and navigating scenes before moving into modeling, texturing, lighting, animating, rendering and more. Additionally, more advanced features such as character rigging, skinning, animating with dynamics and MEL scripting are also introduced. Each chapter begins by examining the concept behind each task, the goal and the necessary features that are involved. Then you go in-depth with the objective of your task as you study examples and learn the steps necessary to complete it. Working your way through the comprehensive, step-by-step lessons, you'll develop the confidence you need to create incredible renderings and animations using Autodesk Maya.

The Autodesk® BIM 360™ Glue® User Fundamentals learning guide teaches you how to better predict project outcomes, reduce conflicts and changes, and achieve lower project risk using a BIM workflow. Over the course of this learning guide, you will learn how to consolidate civil, architectural, structural, and MEP models into one BIM model in

the cloud. Starting with Autodesk® Revit® models, you will append various AutoCAD® Civil 3D® drawing files and Autodesk® Inventor® models and check for conflicts. Next, you will use review and markup tools for communicating issues across disciplines. Finally, you will locate clashes to find constructability issues. This learning guide is designed for new end users of the Autodesk® BIM 360™ Glue® software in multiple disciplines and is written on the software version 4.51.34.534. In addition to Autodesk BIM 360 Glue, you must have Autodesk Revit installed on your computer to complete the practices in this course. Topics Covered - Understanding the purpose of Building Information Modeling (BIM) and how it is applied in the Autodesk BIM 360 Glue software. - Consolidate Models - Navigating the Autodesk BIM 360 Glue desktop and mobile interfaces. - Creating a composite model. - Transforming models for correct alignment. - Review and Analyze Models - Using basic viewing tools. - Saving and retrieving views. - Sectioning a model. - Investigating properties. - Hiding and unhiding items. - Communication - Measuring a model. - Marking up the model. - Collaboration - Reviewing a model for clashes. - Notifying other team members of clashes and markups. - Sending the BIM 360 Glue model to BIM 360 Field users. Prerequisites Understanding of construction terminology.

Arnold Arnold is an advanced cross-platform rendering library, or API, used by a number of prominent organizations in film, television, and animation, including Sony Pictures Imageworks. It was developed as a photo-realistic, physically-based ray tracing alternative to traditional scanline based rendering software for CG animation. Arnold uses cutting-edge algorithms that make the most effective use of your computer's hardware resources: memory, disk space, multiple processor cores, and SIMD/SSE units. The Arnold architecture was designed to easily adapt to existing pipelines. It is built on top of a pluggable node system; users can extend and customize the system by writing new shaders, cameras, filters, and output driver nodes, as well as procedural geometry, custom ray types and user-defined geometric data. The primary goal of the Arnold architecture is to provide a complete solution as a primary renderer for animation and visual effects. However, Arnold can also be used as: A ray server for traditional scanline renderers. A tool for baking/procedural generation of lighting data (lightmaps for videogames). An interactive rendering and relighting tool.

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test, Review Questions, and Exercises are given at the end of each chapter so that the users can assess their knowledge. Additional learning resources at '[mayaexperts.blogspot.com](http://mayaexperts.blogspot.com)'. Table of Contents Chapter 1: Exploring Maya Interface Chapter 2: Polygon Modeling Chapter 3: NURBS Curves and Surfaces Chapter 4: NURBS Modeling Chapter 5: UV Mapping Chapter 6: Shading and Texturing Chapter 7: Lighting Chapter 8: Animation Chapter 9: Rigging, Constraints, and Deformers Chapter 10: Paint Effects Chapter 11: Rendering Chapter 12: Particle System Chapter 13: Introduction to nParticles Chapter 14: Fluids Chapter 15: nHair Chapter 16: Maya Fur Chapter 17: Bullet Physics Index

Presents a collection of projects highlighting the features of Maya, covering such topics as using Maya Fluids, nParticle collisions, Paint Effects, and nCloth.

Go from 'beginner' to 'expert' with this professional, tutorial-based guide to Maya 2016 Mastering Autodesk Maya 2016 is your professional hands-on coverage to getting the most out of Maya. If you already know the basics of Maya, this book is your ticket to full coverage of all Maya 2016's latest features, and showcases the tools and methods used in real-world 3D animation and visual effects. From modeling, texturing, animation, and effects to high-level techniques for film, television, games, and more, this book expands your skill set, and helps you prepare for the Autodesk Maya certification exam. Filled with challenging tutorials and real-world scenarios this book provides valuable insight into the entire CG production timeline. Take your Maya skills to the next

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level with step-by-step instruction and insight from the industry professionals. Learn professional techniques used in real-world visual effects Master Dynamics, Maya Muscle, Stereo Cameras, mental ray, and more Expand your skills with advanced techniques for cloth, fur, and fluids Understand everything you need to know for the Maya certification exam

A wide range of 3D visual effects, computer graphics, and character animation tools make it an ideal platform for 3D artists. The intuitive user interface and workflow tools of Maya 2017 have made the job of design visualization specialists a lot easier. A Comprehensive Guide of Autodesk Maya covers all features of Autodesk Maya in a simple, lucid, and comprehensive manner. It aims at harnessing the power of Autodesk Maya for 3D and visual effects artists, and designers. This textbook will help you transform your imagination into reality with ease. Also, it will unleash your creativity, thus helping you create realistic 3D models, animation, and visual effects. It caters to the needs of both the novice and advanced users of Maya and is ideally suited for learning at your convenience and at your pace.

Learning Autodesk Maya: Foundation is a full-color book that offers students a hands-on approach for learning how to use Maya, the industry-leading 3D animation and effects software. You will work with real movie footage, interactive tutorials and step-by-step lessons to understand the basics of modeling, texturing, animating, and visual effects. The companion DVD, which includes instructor-led tutorial videos and other resources for extended learning, will further reinforce the topics

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covered in the book so that you can become better acquainted with the Maya User Interface.

Autodesk Maya 2020 Basics GuideSDC Publications

Adding sophisticated new tools that give modelers even more control over polygons, an already cool program just got even cooler. Here to take budding 3D artists from 0 to 60 fast in Maya 8 is the eagerly anticipated update to everybody's favorite Maya tome: Maya 8 for Windows and Macintosh: Visual QuickStart Guide! In these pages, best-selling authors Morgan Robinson and Nathaniel Stein use a combination of task-based instruction and strong visual aids to take readers step by step through all of Maya's essentials: navigating the interface, modeling elementary and complex objects, unsurpassed character rigging and posing, mastering deformers, shaders, and renderers, and more. Both beginning users, who want a thorough introduction to the topic, and more advanced users, who are looking for a convenient reference, will find what they need here in straightforward language and through readily accessible examples, peppered with tons of timesaving tips and tricks.

Pixologic ZBrush 2018: A Comprehensive Guide covers all features of ZBrush 2018, which is a powerful modeling and sculpting software developed by Pixologic Inc. and is used for developing highly detailed characters for movies, games, and digital design projects. The book provides in-depth details of the concepts and explains the usage and functions of the most commonly used tools of ZBrush. In this edition, new feature such as, ZModeler, NanoMesh, and KeyShot renderer have been also been explained. This book will unleash your

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creativity and transform your imagination into reality, thus helping you create realistic 3D models. This book caters to the needs of both the novice and advanced users of ZBrush 2018 and is ideally suited for learning at your convenience and at your pace. Salient Features:

Consists of 12 chapters & 1 project that are organized in a pedagogical sequence. Covers all aspects such as modeling, texturing, lighting, & animation in ZBrush.

Tutorial approach to explain the concepts and usage of tools. First page of every chapter summarizes the topics that are covered in the chapter. Additional information is provided throughout the book in the form of notes and tips. Self-Evaluation test & Review Questions at the end of each chapter so that the users can assess their knowledge.

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increased realism • How to render stills and animations using Maya Vector and Mental Ray for different looks • How to use the Command Line and MEL Scripting to work faster About Autodesk Maya Maya is a program, created by Autodesk, used to model, animate, and render 3D scenes. 3D scenes created with Maya have appeared in movies, television, advertisements, games, product visualizations, and on the Web. With Maya, you can create and animate your own 3D scenes and render them as still images or as animation sequences.

Bullet Rigid and Soft Body Dynamics The Bullet physics engine lets you create large-scale, highly-realistic dynamic and kinematic simulations. You can use Bullet to create content for rendered animations for film and visualization, as well as for the setup of game engine and real-time simulations. The Bullet plug-in provides seamless mapping of Bullet objects to Maya objects. The controls to the Bullet objects are exposed in Maya Objects, and the interaction follows the typical Maya dynamics paradigm. Bullet Physics is an open-source collision detection, rigid body and soft body dynamics library. The library provides a collection of objects each corresponding to the various aspects of dynamic simulations. For example, the Bullet solver, rigid bodies, soft bodies and constraints are all unique Bullet objects.

Start modeling right away with this hands-on guide to learning Autodesk Maya 2016 Introducing Autodesk Maya 2016 is the official guide to the most popular and complex 3D application on the market. Building from the ground up, this book combines straightforward text with practical examples that make it easy to absorb the basics and start designing and animating your own digital models and scenes. The tutorials offer realistic challenges and clear explanations, laid out in fun, step-by-step lessons that help you gain confidence and learn by doing. You'll delve into CG and 3D core concepts

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and production workflows, then get right to work designing an animation of the solar system as you learn the interface and basic tools. As your modeling skills grow, you'll build a steam locomotive, a starfish, a table lamp, and much more as you learn to rig your model for animation, create fabric motion with nCloth, and add the lighting and effects that bring your scenes to life. The companion website features downloadable project files that help you see how the pros do it, and the book includes real-world examples from talented users who were beginners just like you. Master the Maya 2016 interface, menus, and plug-ins Begin building simple animations right away Explore modeling, rendering, animation, and cloth motion Add lighting, rendering, dynamics, simulations, and effects If you want to work like the pros, Introducing Autodesk Maya 2016 is the perfect primer for getting started.

The Autodesk 3ds Max 2020: A Detailed Guide to Modeling, Texturing, Lighting, and Rendering book is perfect for both beginners and intermediate users of 3ds Max and for those moving from other software to 3ds Max. This brilliant guide takes you step-by-step through the whole process of modeling, texturing, UV mapping, lighting, and rendering. You will learn important concepts and techniques about 3ds Max which you can utilize to create your 3ds Max projects. This book also cover the Arnold renderer. Using a structured and pragmatic approach, this guide begins with basics of modeling, then builds on this knowledge using practical examples to enhance your modeling, texturing, lighting, and rendering skills. Each unit builds on the knowledge gained in the previous unit, showing you all the essentials of 3ds Max 2020. As you go from hands-on exercise to hands-on exercise, you'll develop a strong arsenal of skills that combined will form a complete end to end process to create high quality renders using 3ds Max 2020. This book shares tips, tricks, notes, and cautions throughout, that will help you

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become a better 3ds Max artist and you will be able to speed up your workflow. This book is aimed to be a solid teaching resource for learning 3ds Max. It avoids any jargon and explains concepts and techniques in an easy-to-understand manner. The first page of the every unit summarizes the topics that will be covered in the unit. Hands-on exercises in this book instruct users how things can be done in 3ds Max step-by-step. Practicing is one of the best ways to improve skills. This book contains practice activities which you are highly encouraged to complete and gain confidence for real-world projects. By completing these activities, you will be able to master the powerful capabilities of 3ds Max. By the time you're done, you'll be ready to model, texture, and render any scene in 3ds Max. If you buy this book, you'll also get access to all 3ds Max files, texture files, and any other resource used in the book. You are free to use these resources in your own projects personal or commercial. These working files allow you to follow along with the author throughout the units. What are the key features of the book? Covers 3ds Max's updated user interface, navigation, tools, functions, and commands. Explains the polygon, subdivision, and spline modeling techniques. Covers all modifiers. Covers Standard materials and lights. Covers UV mapping techniques. Covers Arnold lights, shaders, and rendering techniques. Detailed coverage of tools and features. Features 75 hands-on exercises – complete with before and after files. Features practice activities to test the knowledge gained. Additional guidance is provided in the form of tips, notes, and cautions. Important terms are in bold face so that you never miss them. The content under “What just happened?” heading explains the working of the instructions. The content under “What next?” heading tells you about the procedure you will follow after completing a step(s). Includes an ePub file that contains the color images of the

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screenshots/illustrations used in the textbook. These color images will help you in the learning process. This ePub file is included with the resources. Tech support from the author. Access to each exercise's initial and final states along with the resources used in hands-on exercises. Quiz to assess the knowledge. Bonus hands-on exercises.

Provides hands-on intermediate-to-advanced coverage of the leading 3D software Maya is the industry-leading 3D animation and effects software used in movies, visual effects, games, and other genres. For intermediate and advanced users who already know Maya basics, this official Maya guide provides the detailed coverage you need to unlock the software's more complex features. Elevate your skills in modeling, texturing, animation, and visual effects, and gain proficiency in high-level techniques for film, television, game development, and more. Artists who are already proficient in Maya basics can elevate their skills and increase their marketability with the techniques in this official Maya guide This fully updated book brings you up to speed on Maya's latest features and expands your skills with advanced instruction on cloth, fur, and fluids Offers intermediate-level projects on Dynamics, Maya Muscle, Stereo Cameras, Assets, rendering with mental ray, and more Offers challenging tutorials and real-world scenarios from some of the leading professionals in the industry Provides valuable insight into the entire CG production pipeline Mastering Autodesk Maya gives the serious Maya student a head start toward a successful career in 3D animation.

Written by renowned author and 3D artist, Kelly L. Murdock, Autodesk Maya 2017 Basics Guide is designed to give new users a solid understanding of the fundamental skills needed to create beautiful 3D models and stunning animations with Autodesk Maya. Using clear and easy to follow instructions this book will guide you through learning all the major features

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of Maya. The text is complemented by video instruction. Each chapter has a corresponding video tutorial that introduces you to the topics and allows you to watch and learn how functions are performed in a way that a text alone cannot do. Autodesk Maya 2017 Basics Guide makes no assumptions about your previous experience with Autodesk Maya. It begins by helping you get comfortable with the user interface and navigating scenes before moving into modeling, texturing, lighting, animating, rendering and more. Additionally, more advanced features such as character rigging, skinning, animating with dynamics and MEL scripting are also introduced. Each chapter begins by examining the concept behind each task, the goal and the necessary features that are involved. Then you go in-depth with the objective of your task as you study examples and learn the steps necessary to complete it. Working your way through the comprehensive, step-by-step lessons, you'll develop the confidence you need to create incredible renderings and animations using Autodesk Maya. Who this book is for This text was created specifically for users with no prior 3D modeling or animation experience. If you want to work in a creative field or are just curious about how 3D animated movies are made this book is the perfect way to get started. Users who are migrating from another 3D application or upgrading from a previous version of Maya will also benefit greatly from this text.

Written by renowned author and 3D artist, Kelly L. Murdock, Autodesk Maya 2015 Basics Guide is designed to give new users a solid understanding of the fundamental skills needed to create beautiful 3D models and stunning animations with Autodesk Maya. Using clear and easy to follow instructions this book will guide you through learning all the major features of Maya. The text is complemented by accompanying video instruction that's included with each book. Each chapter has a corresponding video tutorial that introduces you to the

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This integrated node based 3D software finds its application in the development of films, games, and design projects. A wide range of 3D visual effects, computer graphics, and character animation tools make it an ideal platform for 3D artists. The intuitive user interface and workflow tools of Maya have made the job of design visualization specialists a lot easier. A Comprehensive Guide of Autodesk Maya textbook covers all features of Autodesk Maya in a simple, lucid, and comprehensive manner. It aims at harnessing the power of Autodesk Maya for 3D and visual effects artists, and designers. This textbook will help you transform your

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imagination into reality with ease.

Written by renowned author and 3D artist Kelly L. Murdock Autodesk Maya 2019 Basics Guide is designed to give new users a solid understanding of the fundamental skills needed to create beautiful 3D models and stunning animations with Autodesk Maya. Using clear and easy to follow instructions this book will guide you through learning all the major features of Maya. The text is complemented by video instruction. Each chapter has a corresponding video tutorial that introduces you to the topics and allows you to watch and learn how functions are performed in a way that a text alone cannot do. Autodesk Maya 2019 Basics Guide makes no assumptions about your previous experience with Autodesk Maya. It begins by helping you get comfortable with the user interface and navigating scenes before moving into modeling, texturing, lighting, animating, rendering and more. Additionally, more advanced features such as character rigging, skinning, animating with dynamics and MEL scripting are also introduced. Each chapter begins by examining the concept behind each task, the goal and the necessary features that are involved. Then you go in-depth with the objective of your task as you study examples and learn the steps necessary to complete it. Working your way through the comprehensive, step-by-step lessons, you'll develop the confidence you need to create incredible renderings and animations using

Autodesk Maya. Who this book is for This text was created specifically for users with no prior 3D modeling or animation experience. If you want to work in a creative field or are just curious about how 3D animated movies are made this book is the perfect way to get started. Users who are migrating from another 3D application or upgrading from a previous version of Maya will also benefit greatly from this text. What you'll learn

- How to create models using curves, NURBS, Polygons and more
- How to assign materials and textures to make realistic-looking models
- How to use Paint Effects to paint on and quickly create complex 3D Models
- How to use lights, cameras, and depth of field to render captivating scenes
- How to use keyframes, motion paths and the Graph Editor to create animations
- How to use character rigging, skinning, and inverse kinematics to animate realistic movements
- How to add influence objects, skin weights and hair to a character for a more realistic look
- How to use dynamics to create fire, smoke, lightning, explosions, cloth and ocean effects
- How to enable raytracing, motion blur, and fog effects for increased realism
- How to render stills and animations using Maya Vector and Mental Ray for different looks
- How to use the Command Line and MEL Scripting to work faster

About Autodesk Maya Maya is a program, created by Autodesk, used to model, animate, and render 3D scenes. 3D scenes created with Maya

have appeared in movies, television, advertisements, games, product visualizations, and on the Web. With Maya, you can create and animate your own 3D scenes and render them as still images or as animation sequences.

Rendering is the final stage in the 3D computer graphics production process. Though the wider context of rendering begins with shading and texturing objects and lighting your scene, the rendering process ends when surfaces, materials, lights, and motion are processed into a final image or image sequence. Visualization vs. the final render As you build scenes (shade and texture objects, light scenes, position cameras, and so on), you'll want to visualize them many times before producing the final rendered image or image sequence. This process may involve (depending on your particular project) creating and setting up additional cameras. See [Create a camera](#) and [Adjust a camera and its attributes](#). Visualize a scene during early iterations to detect and correct image quality problems or to estimate and reduce the amount of time the final render takes before you spend time performing the final render. You can visualize your scene in the viewport, interactively render with the Maya software renderer using IPR; or, if you are using the Arnold for Maya renderer, interactively render in the Arnold RenderView. You can render a single frame or a sequence of multiple frames; that is, an animation or

part of an animation interactively from within Maya. Alternatively, you can batch render or command line render one or more frames. Before you start your final render, be sure to select a renderer, and set the file name, format, and resolution of your rendered images in the Render Settings window.

The exclusive, official guide to the very latest version of Maya Get extensive, hands-on, intermediate to advanced coverage of Autodesk Maya 2012, the top-selling 3D software on the market. If you already know Maya basics, this authoritative book takes you to the next level. From modeling, texturing, animation, and visual effects to high-level techniques for film, television, games, and more, this book provides professional-level Maya instruction. With pages of scenarios and examples from some of the leading professionals in the industry, author Todd Palamar will help you master the entire CG production pipeline. Provides professional-level instruction on Maya, the industry-leading 3D animation and effects software used in popular films, games, and commercials Covers the very latest Maya 2012 tools and features, including the new fluid simulation tools Showcases the techniques of professionals through numerous examples, demonstrating how to set up and manage 3D animation and visual effects pipelines Includes challenging tutorials and real-world scenarios from some of the leading professionals in the industry If

you're looking for an in-depth, professional Maya resource to turn to again and again, this is the book you need.

Welcome to the world of Autodesk Maya 2016.

Autodesk Maya 2016 is a powerful, integrated 3D modeling, animation, visual effects, and rendering software developed by Autodesk Inc. This integrated node based 3D software finds its application in the development of films, games, and design projects. A wide range of 3D visual effects, computer graphics, and character animation tools make it an ideal platform for 3D artists. The intuitive user interface and workflow tools of Maya 2016 have made the job of design visualization specialists a lot easier.

Autodesk Maya 2016: A Comprehensive Guide textbook covers all features of Autodesk Maya 2016 in a simple, lucid, and comprehensive manner. It aims at harnessing the power of Autodesk Maya 2016 for 3D and visual effects artists, and designers. This textbook will help you transform your imagination into reality with ease. Also, it will unleash your creativity, thus helping you create realistic 3D models, animation, and visual effects. It caters to the needs of both the novice and advanced users of Maya 2016 and is ideally suited for learning at your convenience and at your pace.

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