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Autodesk Maya 2015 Basics Guide Kelly L. Murdock 2014-11-19 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 topics and allows you to watch and learn how functions are performed in a way that a text alone cannot do. Autodesk Maya 2015 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.

Parametric Building Design Using Autodesk Maya Ming Tang 2014-03-26 Due to its comprehensive tool-set and great potential for 3D modeling, more and more architectural design and interior design firms are adapting Autodesk Maya and integrating it into their practice. There has been no book aimed at architects and designers who wish to harness the opportunities presented by this software, until now..... The book promotes parametric design. It integrates the theoretical research of computational design and Maya non-linear modeling techniques associated with simulation, animation, digital fabrication and form-finding within 2D & 3D design. Readers will learn: How to use Maya polygon and NURBS modeling tools to create non-linear procedural model. How to use Maya driver keys and relationship tools to generate parametrically negotiable solutions across various design professions. The design logic and generative processes, as well as the potential of parametric thinking as a resourceful tool for achieving diversity and complexity in form generation and fabrication. How to use Maya to prepare files for rapid prototyping and the integration of Maya into various fabrication techniques such as laser cutting, CNC milling, and 3D printing. How to create a digital simulation to simulate all aspects of surface properties and dynamic forces with Maya physics engine. How to use Maya skeleton system and animation tools to control complex architectural forms. How to create photo-realistic renderings with Maya lighting, material and texture mapping. Using several real projects as examples, the book will go through the entire rendering process step by step. How to combine Maya with various CAD/BIM tools to create an efficient design pipeline. How to use Maya MEL script to create customized tools and interface. The book includes case studies from Zaha Hadid Architects, Greg Lynn Form, Gage Clemenceau Architects, Tang & Yang Architects, as well as step by step exercises, demonstration projects and crucially a fantastic online resource which includes video tutorials, scripts, and Maya source files.

Learn OpenGL Joey de Vries 2020-06-17 Learn OpenGL will teach you the basics, the intermediate, and tons of advanced knowledge, using modern (core-profile) OpenGL. The aim of this book is to show you all there is to modern OpenGL in an easy-to-understand fashion, with clear examples and step-by-step instructions, while also providing a useful reference for later studies.

Games in Libraries Breanne A. Kirsch 2014-01-28 "This essay collection discusses innovative uses of games in libraries and focuses on the game making process. The purpose of this

book is to bring together distinctive uses of games in libraries or educational institutions and share these ideas with others to inspire the making and use of games by other librarians and educators.]"--

Introducing Autodesk Maya 2015 Dariush Derakhshani 2014-06-12 Learn Autodesk Maya from an award-winning insider Best-selling author, visual effects supervisor, and technical educator Dariush Derakhshani brings you a newly-updated, step-by-step guide to the most popular and complex 3D application on the market, Autodesk Maya. Introducing Autodesk Maya 2015 includes straightforward lessons, real-world examples, detailed tutorials, and downloadable project files that get you modeling and animating your own digital models and scenes right away. The book starts you with the latest CG concepts and production workflows, and then shows you how to create a solar system to help get you acquainted with the basic tool set in Maya. From there, the books helps you: Learn the Maya user interface, including menus and plug-ins Build simple animations and 3D images right away Explore polygons, modeling, and NEX tools Get started with HDRI lighting, rendering, dynamics, simulations, and effects Whether you're new to 3D or migrating from another 3D application, Introducing Autodesk Maya 2015 will kick-start your creativity and get you up and running with Maya. Author Derakhshani has worked on movies such as The Fantastic Four and Pan's Labyrinth, the South Park TV series, and numerous commercials and music videos.

Compositing Visual Effects in After Effects Lee Lanier 2015-11-19 Create vibrant visual effects with Adobe After Effects. Gain the tips, tricks, and applied knowledge you need to carry out essential visual effects tasks and bring your digital compositing to the next level. In Compositing Visual Effects in After Effects, industry veteran Lee Lanier covers all the common After Effects techniques any serious visual effects artist needs to know, combining the latest, professionally-vetted studio practices and workflows with multi-chapter projects and hands-on lessons. Engaging, full-color tutorials cover: Altering resolutions and frame rates Channel and color space manipulation Rotoscoping and masking Matchmoving and motion tracking Keying green screen Working in the 3D environment and integrating 3D render passes Particle simulation Color grading and distressing Expressions and project management The companion website (www.focalpress.com/cw/lanier) features video image sequences, 3D renders, matte paintings, and other tutorial materials, allowing you to immediately apply the techniques taught in the book.

Maya Programming with Python Cookbook Adrian Herbez 2016-07-29 Master complex workflows and conquer the world with Python and Maya About This Book Improve your modelling skills and reduce your scripting problems using Python in Maya Learn to communicate with web applications using Python for easier team development A quick and practical answer to every problem you can have whilst scripting in Maya with Python Who This Book Is For This book is for Python developers who have just started scripting with Maya. What You Will Learn Find out how to use Python scripting to automate tedious tasks Create functional user interfaces to make scripts easy to share with others Add new functionality to Maya via the power of scripting Import and export arbitrary data into and out of Maya Improve your workflow, and that of your team Create custom create custom controls to make rigs that are easy to work with Implement a system to render 3D assets for isometric games Use script jobs to trigger actions automatically in response to user interaction Open a command port to allow other applications to communicate with Maya In Detail Maya is a 3D graphics and animation software, used to develop interactive 3D applications and games with stupendous visual effects. The Maya Programming with Python Cookbook is all about creating fast, powerful automation systems with minimum coding using Maya Python. With the help of insightful and essential recipes, this book will help you improve your modelling skills. Expand your development options and overcome scripting problems encountered whilst developing code in Maya. Right from the beginning, get solutions to complex development concerns faced when implementing as parts of build. Style and approach This book is comprised of a set of practical recipes, grouped under specific topics, which can be referred to independently or in sequence. These recipes provide quick solutions to common problems, and cover most of the real-world scenarios that developers are likely to face when working with Maya.

Digital Compositing with Blackmagic Fusion Lee Lanier 2018-10-24 Create complex composites with Blackmagic Fusion. Learn the basics of node-based compositing and get up to speed quickly so you can undertake your own compositing projects. In Digital Compositing with Blackmagic Fusion: Essential Techniques, industry veteran Lee Lanier covers the most important components, tools, and workflows any serious compositor needs to know. Practice your knowledge and skill as you read the book with the included mini-tutorials and longer chapter tutorials. An accompanying eResource features video image sequences, 3D renders, and other tutorial materials, allowing you to immediately practice the discussed techniques. Critical topics in this book include: Tool / Node networks Color space and color channels Transformations Masking and rotoscoping Keyframing and animation splines Green screen keying The Fusion 3D environment Color grading and color manipulation Filter tools Motion tracking Particle simulation Stereoscopic workflow

3D Animation for the Raw Beginner Using Autodesk Maya 2e Roger King 2019-02-07 3D Animation for the Raw Beginner Using Autodesk Maya is a hands-on academic textbook as well as a do-it-yourself training manual for the individual animator. This second edition has been completely rewritten to take into account updates to Autodesk Maya, including Autodesk's renderer, Arnold. It contains entirely new examples and tutorial lessons. All 612 images are in full color. The book directs the reader to the parts of Maya that must be mastered in order to create complete 3D projects, and thus it simplifies the process of taking on Maya's vast and intricate interface, while giving the reader a firm foundation on which to build future knowledge of Maya. It also presents brief examples of other popular 3D applications and rendering engines. This principles-based, yet pragmatic book: Introduces the basic steps of the 3D modeling, materials, animation, lighting, and rendering processes. Presents clear and concise tutorials that link key concepts to practical techniques. Includes access to a webpage for the book: <https://buzzking.com/AnimationTextbook/AnimationTextbook.html>. On this webpage are videos that cover many of the lessons in the book, as well as video tutorials that present bonus material not included in the book. Frees instructors from the painstaking task of developing step-by-step examples to present Maya's complex interface and basic capabilities. Boasts an easy-to-follow, tutorial-based learning style ideal for individual study by aspiring animators and do-it yourselfers. Roger "Buzz" King is a Professor Emeritus at the University of Colorado at Boulder, where he teaches 3D Animation for the Computer Science Department and the Alliance for Technology, Learning, and Society (ATLAS), an institute dedicated to the application of technology to the arts. Buzz is an independent 3D animator who serves on the board of directors of a 3D animation startup. Buzz has a B.A. in Mathematics from Occidental College, an

M.S. and Ph.D. in Computer Science from the University of Southern California, and an M.Div. from the Iliff School of Theology. Key Features Introduces critical aspects of the 3D animation process Presents clear and concise tutorials that link key concepts to practical techniques Includes access to a dedicated Web site, <http://3dbybuzz.com>, featuring useful videos, lessons, and updates Frees instructors from developing step-by-step examples to present Maya's complex interface and basic Boasts an easy-to-follow, hands-on learning style ideal for individual study by aspiring animators and do-it-yourselfers

Beginning Programming with Python For Dummies John Paul Mueller 2018-02-13 The easy way to learn programming fundamentals with Python Python is a remarkably powerful and dynamic programming language that's used in a wide variety of application domains. Some of its key distinguishing features include a very clear, readable syntax, strong introspection capabilities, intuitive object orientation, and natural expression of procedural code. Plus, Python features full modularity, supporting hierarchical packages, exception-based error handling, and modules easily written in C, C++, Java, R, or .NET languages, such as C#. In addition, Python supports a number of coding styles that include: functional, imperative, object-oriented, and procedural. Due to its ease of use and flexibility, Python is constantly growing in popularity—and now you can wear your programming hat with pride and join the ranks of the pros with the help of this guide. Inside, expert author John Paul Mueller gives a complete step-by-step overview of all there is to know about Python. From performing common and advanced tasks, to collecting data, to interacting with package—this book covers it all! Use Python to create and run your first application Find out how to troubleshoot and fix errors Learn to work with Anaconda and use Magic Functions Benefit from completely updated and revised information since the last edition If you've never used Python or are new to programming in general, Beginning Programming with Python For Dummies is a helpful resource that will set you up for success.

Introduction to 3D Game Programming with DirectX 11 Frank Luna 2012-03-15 This updated bestseller provides an introduction to programming interactive computer graphics, with an emphasis on game development using DirectX 11. The book is divided into three main parts: basic mathematical tools, fundamental tasks in Direct3D, and techniques and special effects. It includes new Direct3D 11 features such as hardware tessellation, the compute shader, dynamic shader linkage and covers advanced rendering techniques such as screen-space ambient occlusion, level-of-detail handling, cascading shadow maps, volume rendering, and character animation. Includes a companion CD-ROM with code and figures. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com.

Hybrid Animation Tina O'Hailey 2012-11-12 Artist imaginations continue to grow and stretch the boundaries of traditional animation. Successful animators adept and highly skilled in traditional animation mediums are branching out beyond traditional animation workflows and will often use multiple forms of animation in a single project. With the knowledge of 3D and 2D assets and the integration of multiple animation mediums into a single project, animators have a wealth of creative resources available for a project that is not limited to a specific animation medium, software package or workflow process. Enhance a poignant scene by choosing to animate the scenic background in 2D while the main character is brought to life with 3D techniques. Balance the budget demands of a project by choosing to integrate a 2D or 3D asset to save time and expense. Choose which medium Hybrid Animation, learn the systematic development of the 2D and 3D assets and the issues surrounding choices made during the creative process.

Autodesk Maya 2022 Basics Guide Kelly Murdock 2021-07-26 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, 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.

Creating Visual Effects in Maya Lee Lanier 2014-02-03 Produce mind-blowing visual effects with Autodesk Maya. Gain the practical skills and knowledge you need to recreate phenomena critical to visual effects work, including fire, water, smoke, explosions, and destruction, as well as their integration with real-world film and video. In Creating Visual Effects in Maya, Maya master Lee Lanier has combined the latest studio techniques with multi-chapter, hands-on projects and professionally-vetted workflows to bolster your CG toolkit. Engaging, full-color tutorials cover: Creating foliage, fire, and smoke with Paint Effects Growing Maya Fur and nHair on clothing, characters, and sets Replicating water, smoke, sparks, swarms, bubbles, and

debris with nParticles and nCloth Controlling scenes and simulations with expressions and MEL, Python, and PyMEL scripting Adding dust, fog, smoke, rippling water, and fireballs with Fluid Effects containers Creating damage with Effects presets, deformers, and animated textures Matchmoving and motion tracking with Maya and MatchMover Creating complex destruction by combining rigid bodies, nParticles, nCloth, and Fluid Effects Setting up, rendering, and compositing mental ray render passes with Autodesk Composite, Adobe After Effects, and The Foundry Nuke The companion website (www.focalpress.com/cw/lanier) features a treasure trove of Maya, MatchMover, After Effects, and Nuke project files, image sequences, texture bitmaps, and MEL, Python, and PyMEL scripts, allowing you to immediately apply the techniques taught in the book.

Autodesk Maya 2016 Basics Guide Kelly Murdock 2015-09-18 Written by renowned author and 3D artist, Kelly L. Murdock, Autodesk Maya 2016 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 2016 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.

Autodesk Arnold Render User Guide for MAYA Serdar Hakan DÜZGÖREN 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.

Digital Sculpting with Mudbox Mike de la Flor 2012-10-12 Digital sculpting is the use of tools to push, pull, smooth, grab, pinch or otherwise manipulate a digital object as if it were made of a real-life substance such as clay. Mudbox is the premier sculpting solution for digital artists, in that it allows them to naturally and easily sculpt detailed, organic characters and models in a way that feels like traditional sculpting. This book guides CG professionals through the process of creating amazing digital sculptures using the Mudbox arsenal of ground-breaking digital sculpting and 3D painting tools, and porting the models into their Maya or Max work. Artists will explore tried and true, traditional, sculpting techniques and learn to apply them to digital sculpting. A series of in-depth tutorials are included, each challenging them with progressively more complex models as they go on. Unique to this book are topics specific to fine art sculptors transitioning from traditional sculpting to digital sculpting. information found nowhere else for professional sculptors shows them how to successfully integrate digital sculpting into their workflow. Associated web site with: support files, models, materials, and textures for completing the tutorials in the book.

Maya Visual Effects Eric Keller 2007-03-19 Create positively dazzling effects with the unique insights and practical advice in this innovative guide from a working professional Maya artist. Need to create plasmatic energy by lunch? Animate a field of sprouting daisies before tomorrow's meeting? Fashion a force field by Friday? With Maya's flexible toolset and the unique tutorials in this book, you'll learn how to solve real-world problems, improvise, and finish your professional assignments on time and with flair.

Autodesk Maya 2018 Basics Guide Kelly Murdock 2017-11 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.

BIM Handbook Rafael Sacks 2018-07-03 Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new

avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Imagine Design Create Tom Wujec 2011 "Imagine, design, create offers a wide-ranging look at how the creative process and the tools of design are dramatically changing - and where design is headed in the coming years. Bringing together stories of good design happening around the world, the book shows how people are using fresh design approaches and new capabilities to solve problems, create opportunities, and improve the way we live and work"-- Book jacket.

Photoshop for Games Shawn Nelson 2014-08-13 Provides hands-on lessons on developing best practices for using Photoshop to create game art for consoles, mobile devices, or the Web, with examples from a variety of art styles, including comic, realistic, and graphic styles.

Beginning Blender Lance Flavell 2011-08-27 A new world of creative possibilities is opened by Blender, the most popular and powerful open source 3D and animation tool. Blender is not just free software; it is also an important professional tool used in animated shorts, television commercials, and shows, as well as in production for films like Spiderman 2. Lance Flavell's Beginning Blender will give you the skills to start shaping new worlds and virtual characters, and perhaps lead you down a new professional path. Beginning Blender covers the Blender 2.5 release in-depth. The book starts with the creation of simple figures using basic modeling and sculpting. It then teaches you how to bridge from modeling to animation, and from scene setup to texture creation and rendering, lighting, rigging, and ultimately, full animation. You will create and mix your own movie scenes, and you will even learn the basics of games logic and how to deal with games physics. Whether you are new to modeling, animation, and game design, or whether you are simply new to Blender, this book will show you everything you need to know to get your 3D projects underway.

Autodesk Maya 2020 Basics Guide Kelly Murdock Written by renowned author and 3D artist Kelly L. Murdock, Autodesk Maya 2020 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 2020 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.

Practical Maya Programming with Python Robert Galanakis 2014-07-25 Practical Maya Programming with Python is a practical tutorial packed with plenty of examples and sample projects which guides you through building reusable, independent modules and handling unexpected errors. If you are a developer looking to build a powerful system using Python and Maya's capabilities, then this book is for you. Practical Maya Programming with Python is perfect for intermediate users with basic experience in Python and Maya who want to better their knowledge and skills.

Farming Simulator Modding For Dummies Jason van Gumster 2014-08-18 Learn the basics of 3D modeling for the popular Farming Simulator game Do you want to get started with creating your own vehicles, maps, landscapes, and tools that you can use in the game and share with the Farming Simulator community? Then this is the resource for you! With the help of Jason van Gumster, you'll get up and running on everything you need to master 3D modeling and simulation—and have fun while doing it! Inside, you'll find out how to create and edit maps, start using the material panel, customize your mods by adding texture, use the correct file-naming conventions, test your mod in single and multiplayer modes, get a grip on using Vehicle XML, and so much more. There's no denying that Farming Simulator players love modding—and now there's a trusted, friendly resource to help you take your modding skills to the next level and get even more out of your game. Written in plain English and packed with tons of step-by-step explanations, Farming Simulator Modding For Dummies is a great way to learn the ropes of 3D modeling with the tools available to you in the game. In no time, you'll be wowing your fellow gamers—and yourself—with custom, kick-butt mods. So what are you waiting for? Includes an easy-to-follow introduction to using the GIANTS 3D modeling tools Explains how to export models to Blender, Maya, 3DS Max, or FBX Provides tips for using the correct image format for textures Details how to use Photoshop and Audacity to create custom mods for Farming Simulator Whether you're one of the legions of rabid fans of the popular

Farming Simulator game or just someone who wants to learn the basics of 3D modeling and animation, you'll find everything you need in this handy guide.

Digital Visual Effects and Compositing Jon Gress 2014-10-20 Everything you need to know to become a professional VFX whizz in one thorough and comprehensive guide.

Autodesk 3ds Max 2014 Essentials Randi L. Derakhshani 2013-06-04 Great guide to the fundamentals of Autodesk 3ds Max 2014 This Autodesk Official Press guide is just what you need to learn the basics of Autodesk 3ds Max 2014 quickly and easily. Through a series of cool projects like designing an alarm clock, animating a thrown knife, or lighting a scene, you'll learn the essentials of modeling, rigging, animating, and rendering using the popular Autodesk 3ds Max 3D animation and effects software. It's a practical, hands-on approach allowing you to constantly reinforcing skills as you learn them. Downloadable before-and-after project files let you to compare your work to that of 3ds Max professionals. Even if you already have experience with 3ds Max, this book is a great reference for renewing your skills. And, it will help all users review and prepare for the Autodesk 3ds Max 2014 certification exams. Helps beginners and those migrating from other 3D animation and effects programs get up and running on Autodesk 3ds Max 2014 Features a realistic, task-based approach, so readers learn via a series of hands-on projects using downloadable files, all backed with ample instruction, explanation, and illustration Covers modeling, rigging, animating, rendering, skinning, architectural visualization, and more Written by Autodesk Authorized Authors and is an Autodesk Official Press book Get firsthand experience with 3ds Max, as well as a good start on preparing for the Autodesk 3ds Max 2014 Certified Professional exam, with Autodesk 3ds Max 2014 Essentials.

Maya Visual Effects The Innovator's Guide Eric Keller 2013-04-12 Create innovative CG solutions with Maya and this creative guide Professional Maya artists have to think on their feet. It's nothing for them to receive just vague sketches or incomplete ideas of what the studio wants and have to come up with something brilliant. If you're an intermediate to advanced Maya user, Maya Visual Effects: The Innovator's Guide, Second Edition is what you need to meet the challenge. Professional Maya artist Eric Keller offers inspired solutions and hands-on projects, as well as numerous practical shortcuts and deadlines, so you learn to produce innovative CG assets from scratch, using Maya, on a deadline. Shows intermediate to advanced Maya users new solutions, workarounds, and shortcuts for creating Maya visual effects on deadline Gives readers plenty of hands-on projects, so they come up with solutions that they can add to their Maya toolsets Offers workable ideas that can be applied, no matter which version of Maya software is being used Presents projects in an engaging style, with pages of full-color imagery to illustrate concepts Create amazing effects with the creative insights and fresh advice in this new edition of Maya Visual Effects: The Innovator's Guide.

The Art of Maya Alias Wavefront 2002-12-31 Wavefront's Maya is the premier tool for 3D modeling, animation, and rendering, used by top studios to create everything from ads to movies to computer games. This book is an official, heavily illustrated, full-color guide to Maya essentials, straight from the creators of the program.

3D Animation Essentials Andy Beane 2012-01-25 The essential fundamentals of 3D animation for aspiring 3D artists 3D is everywhere--video games, movie and television special effects, mobile devices, etc. Many aspiring artists and animators have grown up with 3D and computers, and naturally gravitate to this field as their area of interest. Bringing a blend of studio and classroom experience to offer you thorough coverage of the 3D animation industry, this must-have book shows you what it takes to create compelling and realistic 3D imagery. Serves as the first step to understanding the language of 3D and computer graphics (CG) Covers 3D animation basics: pre-production, modeling, animation, rendering, and post-production Dissects core 3D concepts including design, film, video, and games Examines what artistic and technical skills are needed to succeed in the industry Offers helpful real-world scenarios and informative interviews with key educators and studio and industry professionals Whether you're considering a career in as a 3D artist or simply wish to expand your understanding of general CG principles, this book will give you a great overview and knowledge of core 3D Animation concepts and the industry.

Autodesk Maya 2019 Basics Guide Kelly Murdock 2018-10 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.

Introducing Autodesk Maya 2012 Dariush Derakhshani 2011-03-29 A practical, step-by-step guide to Maya 2012 This book is the ideal primer to getting started with Maya, the premier 3D

animation and effects software used in movies, visual effects, games, cartoons, short films, and commercials. You'll learn the Maya interface and the basics of modeling, texturing, animating, and visual effects. Professional visual effects artist and instructor Dariush Derakhshani explains the nuances of the complex software, while creative tutorials offer realistic, professional challenges for those new to 3D. You'll be up and running in no time with the world's most popular professional 3D software application. Provides a thorough, step-by-step introduction to Maya 2012 Explains the core concepts of CG and working in 3D Covers modeling, rigging, HDR lighting, mental ray rendering, and more Concepts are reinforced with tutorials that offer realistic challenges and clear explanations Color insert provides real-world examples from talented beginning Maya users Build your Maya and animation skills from the ground up with this practical, thorough guide.

Autodesk Maya 2017 Basics Guide Kelly Murdock 2017 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 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.

Kelly L. Murdock's Autodesk 3ds Max 2017 Complete Reference Guide Kelly Murdock 2016-08-25 Kelly L. Murdock's Autodesk 3ds Max 2017 Complete Reference Guide is a popular book among users new to 3ds Max and is used extensively in schools around the globe. The success of this book is found in its simple easy-to-understand explanations coupled with its even easier to follow tutorials. The tutorials are laser focused on a specific topic without any extra material, making it simple to grasp difficult concepts. The book also covers all aspects of the software, making it a valuable reference for users of all levels. The Complete Reference Guide is the ultimate book on 3ds Max, and like Autodesk's 3D animation software, it just gets better and better with each release. Whether you're new to 3ds Max or an experienced user, you'll find everything you need in this complete resource. The book kicks off with a getting started section, so beginners can jump in and begin working with 3ds Max right away. Experienced 3ds Max users, will appreciate advanced coverage of features like crowd simulation, particle systems, radiosity, MAXScript and more. Over 150 tutorials – complete with before and after files – help users at all levels build real world skills.

Autodesk 3ds Max 2016 Essentials Dariush Derakhshani 2015-08-17 Start animating right away with this tutorial-based guide to Autodesk 3ds Max 2016 Autodesk 3ds Max 2016 Essentials is your perfect hands-on guide to start animating quickly. Using approachable, real-world exercises, you'll master the fundamentals of this leading animation software by following full-color screen shots step by step. Each chapter opens with a quick discussion of concepts and learning objectives, and then launches into hands-on tutorials that give you firsthand experience and a good start on preparing for the 3ds Max certification exam. You'll learn the basics of modeling, texturing, animating, and visual effects as you create a retro-style alarm clock, animate a thrown knife, model a chair, and more. Whether you're a complete beginner or migrating from another 3D application, this task-based book provides the solid grounding you need in Autodesk 3ds Max 2016. Model your character with polygons, meshes, and more Add motion with simple and complex animations Add color and textures to visualize materials and surfaces Render interior scenes with great lighting and camera placement If you want to learn 3ds Max quickly and painlessly, Autodesk 3ds Max 2016 Essentials helps you start animating today.

The Game Animator's Guide to Maya Michael McKinley 2008-05-05

Introducing Autodesk Maya 2016 Dariush Derakhshani 2015-07-27 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 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.

Autodesk 3ds Max 2013 Bible Kelly L. Murdock 2012-08-13 Updated version of the bestselling 3ds Max book on the market Autodesk 3ds Max is top animation software used by developers, visual effects artists, and graphic designers in film, television, and the game industry. One place designers turn for crucial information on how to use 3ds Max is this in-depth book. Whether you're a beginner just itching to create something right away or an experienced user checking out the latest and greatest features, you'll find it here. See what's new, what's tried and true, and just how creative you can get using the tips, tricks, and techniques in this essential reference. Every previous edition has been a top-seller. Packs expert advice,

timesaving tips, and more than 150 step-by-step tutorials into over 800 pages that help you master this complex software Gives you in-depth coverage of all new features, as well as the basics Jump-starts your learning on day one with a Quick Start tutorial, so you can create an exciting animation right away Provides you with access to all before-and-after example files from each tutorial, plus unique models and textures that you can customize on the companion CD Includes extra content from previous editions of the 3ds Max Bible, including bonus Quick Start tutorials from previous editions Whether you're just starting out or getting up to speed on 3ds Max 2013, this comprehensive book will get you there.

Digital Image Forensics Husrev Taha Sencar 2012-08-01 Photographic imagery has come a long way from the pinhole cameras of the nineteenth century. Digital imagery, and its applications, develops in tandem with contemporary society's sophisticated literacy of this subtle medium. This book examines the ways in which digital images have become ever more ubiquitous as legal and medical evidence, just as they have become our primary source of news and have replaced paper-based financial documentation. Crucially, the contributions also analyze the very profound problems which have arisen alongside the digital image, issues of veracity and progeny that demand systematic and detailed response: It looks real, but is it? What camera captured it? Has it been doctored or subtly altered? Attempting to provide answers to these slippery issues, the book covers how digital images are created, processed and stored before moving on to set out the latest techniques for forensically examining images, and finally addressing practical issues such as courtroom admissibility. In an environment where even novice users can alter digital media, this authoritative publication will do much so stabilize public trust in these real, yet vastly flexible, images of the world around us.