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in this latest book in the critically acclaimed digital series from new riders you ll learn all of the techniques and skills that will take you from beginner to visual effects vfx professional in just one book seasoned visual effects producer jon gress has refined the teaching of the skills and techniques presented in this book for over a decade to distill them down to the most effective methodology delivered in a way that s both fun and easy to understand while being state of the art for industry professionals you II start with a solid understanding of the basics of visual effects and compositing the fundamentals of bluescreen and greenscreen keying 3d texturing cloning wire rig removal rotoscoping 2d and 3d motion tracking and matchmoving and then experiment with a wide range of 2d 2 5d 3d visual effects including 3d cgi crowd replication face replacements faking shadows reflections and z depth atmospheric smoke cloud heat fx sky replacements day for night and digital 3d hud fx building on this strong foundation of compositing and visual effects you II be prepared for the advanced section of the book which teach skills such as 2d 2 5d 3d digital matte painting and projections film colorization particle systems fluid and rigid body dynamics full digital environments digital destruction advanced lighting and rendering techniques stereoscopic 3d 2d to 3d conversions and expert 3d

and photoshop extraction and modeling techniques that can only be described as magic throughout the lessons you II glean insider advice on cutting edge methods that even experienced professionals will find amazing you II learn everything you need to know to begin working in the world of visual effects as an industry professional all the info you need to go from beginner to professional in one book easily accessible teaching style from an instructor who has helped launch the careers of some of the best known hollywood visual effects specialists includes companion graphics files and videos to follow along with the lessons

digital image compositing fundamentals is an introductory title covering concepts central to digital imagery and digital image compositing using software packages such as adobe photoshop or the open source gimp software which is used for this book because it is free for commercial use this book builds on the fundamental concepts of pixels color depth and layers and gets more advanced as chapters progress covering pixel transparency using the alpha channel pixel blending using porter duff blending and transfer modes and digital image file formats and key factors regarding a data footprint optimization work process what you II learn what are the most common memes in digital imaging what comprises a digital image compositing pipeline what are the concepts behind digital imaging how to install and use gimp 2 8 or 2 9 what are and how to use the concepts behind color depth and imageoptimization audience this book is for those new to image compositing editing ideal for web developers game developers who need to learn these kinds of fundamentals quickly and effectively

sharpen your photoshop compositing skills with this set of tutorials each of which you can complete in about 10 minutes

composite materials and processing provides the science and technology of processing several composites using different processing methods and includes collective information on the processing of common and advanced composite materials it also weighs the advantages and disadvantages of various processing methods this book is suitable for materia

this is a follow up to animation and 3d modeling on the mac by the same authors the previous book introduced novice animators to the basic principles of creating 3d objects the new book takes the next step leading the user to more advanced animation techniques and expanding its coverage to include windows programs a cd rom contains software demos and sample files

this book presents a detailed description of the most common nondestructive testing ndt techniques used for the testing and evaluation fiber reinforced composite structures during manufacturing and or in service stages in order to facilitate the understanding and the utility of the different ndt techniques presented the book first provides some information regarding the defects and material degradation mechanisms observed in fiber reinforced composite structures as well as their general description and most probable causes it is written based on the extensive scientific research and engineering backgrounds of the authors in the ndt and structural health monitoring shm of structural systems from various areas including electrical mechanical materials civil and biomedical engineering pursuing a rigorous approach the book establishes a fundamental framework for the ndt of fiber reinforced composite structures while emphasizing on the importance of technique s spatial resolution integrated systems analysis and the significance of the influence stemming from the applicability of the ndt and the physical parameters of the test structures in the selection and utilization of adequate ndt techniques the book is intended for students who are interested in the ndt of fiber reinforced composite structures researchers investigating the applicability of different ndt techniques to the inspections of structural systems and ndt researchers and engineers working on the optimization of ndt systems for specific applications involving the use of fiber reinforced composite structures

steel and composite structures behaviour and design for fire safety presents a systematic and thorough description of the behaviour of steel and composite structures in fire and shows how design methods are developed to quantify our understanding quantitative descriptions of fire behaviour heat transfer in construction elements and structural an

composite laminated theories and their applications presents the latest methods for analyzing composite laminates and their applications the title introduces the most important analytical methods in use today focusing on fracture damage multi physics and sensitivity analysis alongside these methods it presents original research carried out over two decades on laminated composite structures and gives detailed coverage of laminate theories analytic solutions and finite element models specific chapters cover an introduction to composites elasticity shear state space theory layerwise theories the extended layerwise method fracture and damage mechanics multi physical fracture problems analytical methods of stiffened sandwich structures progressive failure analysis and more this volume offers a comprehensive guide to the state of the art in the analysis and applications of composite laminates which play a critical role in all types of engineering from aerospace to subsea structures including in medical prosthetics circuit boards and sports equipment presents a guide to the analysis and application of advanced composite materials gives detailed exposition of plate shell theories and their implementation in finite element code architecture considers the robustness effectiveness and applications aspects of laminated plate shell methods gives hands on experience of code architecture providing composite analysis software which can be plugged in to commercial applications presents experimental research alongside methods laminate theories analytic solutions and finite element models

to survive in today s competitive 3d computer graphics industry one must possess the technical and artistic skills necessary to create believable visual effects through tutorials interviews and industry proven examples this book provides a complete breakdown of lighting and compositing a digital image or scene from the basic concepts of lighting to the advanced and challenging special effects used on some of the most well known feature films in recent history this exploration of the day to day workings of veterans in the visual effects industry makes inspired 3d lighting and compositing a great tool for anyone looking to break into the field

learn professional secrets of digital compositing with this detailed guide after

filming is done digital compositors move in to manipulate color retouch and perform other behind the scenes tricks that are necessary to improve or finalize movies games and commercials now you can learn their secrets with this one of a kind guide to digital compositing professional animator and author lee lanier not only draws upon his own experience he has also combed some of hollywood s most active post production houses in search of the best solutions learn valuable techniques tricks and more covers techniques for digital compositing including transformations plate preparation rotoscoping advanced render passes particle integration 25d painting hdri stereoscopy and more shows you digital compositing techniques that can be applied to a variety of software tools including after effects and nuke includes a dvd with scenes sample bitmaps image sequences and more start your animation career right with the solid instruction in postproduction you II find in this practical guide note cd rom dvd and other supplementary materials are not included as part of ebook file

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