

Digital Cinematography

Fundamentals, Tools, Techniques, and Workflows

A Focal Press Book

David Stump, ASC



Digital Cinematography Fundamentals Tools

David Stump



Digital Cinematography Fundamentals Tools:

Digital Cinematography David Stump, 2014-03-21 First published in 2014 With the shift from film to digital a new view of the future of cinematography has emerged Today's successful cinematographer must be equal parts artist technician and business person The cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done David Stump's Digital Cinematography focusses primarily on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus another and how those choices help creative cinematographers to tell a story This book empowers you to both correctly choose the right camera and workflow for your project from today's incredibly varied options as well as understand the ins and outs of implementing those options Stump sheds a light on the confusing advantages and disadvantages of shooting theatrical features using digital technology and what it can or can't do Topics covered include Detailed coverage of Arriflex Blackmagic Canon Ikonoskop Panasonic Panavision Phantom Red Silicon Imaging Sony and Weisscam digital motion picture cameras Coverage of a wide variety of lenses including Angenieux Canon Cooke Fujinon Hawk Leica Panavision Red Schneider Sony UniQOptics Vantage and Zeiss Coverage of recorders displays and look management tools Exposure theory tips learn how to correctly expose digital cameras Focusing tips learn how to focus digital cameras correctly Checklists to help design digital workflows Practical tips on preparation prepare for shooting a digital motion picture like a professional Camera set up and operation color management digital intermediates 3D stereo cinematography future trends and much more If you aspire to be a successful cinematographer in this new digital age or if you already are a working cinematographer in need of a resource to help you stay on top of your game this is a must read book

Digital Cinematography David Stump, ASC, 2021-11-18 Today's successful cinematographer must be equal parts artist technician and business person The cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done David Stump's Digital Cinematography focuses on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus another and how those choices help creative cinematographers to tell a story This book empowers the reader to correctly choose the appropriate camera and workflow for their project from today's incredibly varied options as well as understand the ins and outs of implementing those options Veteran ASC cinematographer David Stump has updated this edition with the latest technology for cameras lenses and recorders as well as included a new section on future cinematographic trends Ideal for advanced cinematography students as well as working professionals looking for a resource to stay on top of the latest trends this book is a must read

The Camera Assistant's Manual David E. Elkins, SOC, 2020-03-12 Excel as a Cameraman in today's evolving film industry with

this updated classic Learn what to do and what NOT to do during production and get the job done right the first time This seventh edition covers the basics of cinematography and provides you with the multi skill set needed to maintain and transport a camera troubleshoot common problems on location prepare for job interviews and work with both film and digital technologies Illustrations checklists and tables accompany each chapter and highlight the daily workflow of an Assistant Cameraman AC with expanded sections on problems and troubleshooting updated formulas tables and checklists as well as new information on the differences between working in the United States and UK and additional information on working with digital technology This is a must have for anyone looking to succeed in this highly technical and ever changing profession This book features a comprehensive companion web site that offers plenty of useful resources including online tutorials that ACs can easily access while on location and supplementary downloadable forms and checklists Filming the Fantastic with Virtual Technology Mark Sawicki,Juniko Moody,2020-03-27 This book brings fantasy storytelling to a whole new level by providing an in depth insight into the tools used for virtual reality augmented reality 360 cinema and motion capture in order to repurpose them to create a virtual studio for filmmaking Gone are the long days and months of post before seeing your final product Composites and CG characters can now be shot together as fast as a live action show Using off the shelf software and tools authors Mark Sawicki and Juniko Moody document the set up and production pipelines of the modern virtual mocap studio They reveal the procedures and secrets for making movies in virtual sets The high end technology that enabled the creation of films such as The Lord of the Rings Avatar and The Jungle Book is now accessible for smaller independent production companies Do you want your actors to perform inside of an Unreal Game Engine set and interact with the environment Do you want to be able to put your live action camera on a jib or dolly and move effortlessly through both a live action and virtual space together Do you want live performers interacting with giants elves and other creatures manipulated by motion capture in real time This book discusses all of these scenarios and more showing readers how to create high quality virtual content using alternative cost effective technology Tutorials case studies and project breakdowns provide essential tips on how to avoid and overcome common pitfalls making this book an indispensable guide for both beginners to create virtual backlot content and more advanced VFX users wanting to adopt best practices when planning and directing virtual productions with RealityTM software and performance capture equipment such as Qualysis

Introduction to Cinematography Tania Hoser,2024-08-27 Introduction to Cinematography offers a practical stage by stage guide to learning combining and using the creative and technical aspects of cinematography Building from a skills based approach focused on professional practice cinematographer and award winning author Tania Hoser provides a step by step introduction for both cinematographers and camera assistants to the techniques processes and procedures of working with cameras lenses and light Building on the success of the first book this second edition adds all new chapters on virtual production and extended reality as well as a significant increase in low budget examples and case studies to accommodate

every reader Richly illustrated the book incorporates exercises and sample scripts throughout exploring light color movement and the language of the lens The principles and techniques of shaping and controlling light are applied to working with natural light and film lamps and as with all areas of cinematography show both high end and low budget options This makes the second edition of Introduction to Cinematography the most up to date and essential resource for anyone aiming to acquire the full range of cinematography skills allowing seamless progression from exercises through to full feature shoots Assessment rubrics also provide a framework to measure progress as the reader s ability to visually interpret scripts and enhance the director s vision develops

Behind the Lens Jay Holben, 2015-07-16 Filmmaker Jay Holben has been battling in the production trenches for most of his life For the past 17 years he s chronicled his adventures in the pages of American Cinematographer Digital Video Videography and TV Technology Now in Behind the Lens Dispatches from the Cinematic Trenches he s compiled nearly 100 of his best articles on everything from camera technology and lenses to tips and techniques for better lighting Whether you re making independent films commercials music videos documentaries television shows event videos or industrials this full color collection provides the tools you need to take your work to the next level and succeed in the world of digital motion imaging Featured topics include Tech including the fundamentals of how digital images are formed and how they evolved to match the look of a film as well as image compression and control Optics providing a thorough examination of lenses and lens interchangeability depth of field filters flare quality MTF and more Cameras instructing you in using exposure tools ISO white balance infrared and stabilizers Lighting featuring advice on using lighting sources and fixtures and how to tackle common lighting problems Additional tips and tricks cover improving audio celestial photography deciding if film school is right for you and much more For over a decade Jay Holben has worked as a director of photography in Los Angeles on features commercials television shows and music videos He is a former technical editor and frequent contributing writer for American Cinematographer the current technical editor and columnist for Digital Video and the lighting columnist for TV Technology The author of A Shot in the Dark A Creative DIY Guide to Digital Video Lighting on Almost No Budget Holben is also on faculty for the Global Cinematography Institute He is now an independent producer and director

Virtual Production Mark Sawicki, Juniko Moody, 2025-06-30 This book written by industry experts provides a comprehensive understanding of virtual production processes concepts and technology helping readers get to grips with this nascent technology Topics covered are the history of virtual production underlying technologies creative potential and production workflows In addition it delivers a detailed overview of the virtual production pipeline from pre production planning to post production finishing Each chapter explains specific aspects of virtual production such as real time rendering motion capture virtual cameras LED screens game engines and collaborative workflows Additionally the book examines virtual production s ethical and cultural implications including the impact on actors the representation of diverse voices and the democratization of filmmaking Whether you re a student teacher or industry professional Virtual Production

will provide you with a solid foundation for comprehending the fundamental concepts behind a constantly evolving and intricate process

The New Television Handbook Jonathan Bignell, Jeremy Orlebar, Patricia Holland, 2017-07-14 The New Television Handbook provides an exploration of the theory and practice of television at a time when the medium is undergoing radical changes The book looks at television from the perspective of someone new to the industry and explores the place of the medium within a constantly changing digital landscape This title discusses key skills involved in television production including producing production management directing camera sound editing and visual effects Each of these activities is placed within a wider context as it traces the production process from commissioning to post production The book outlines the broad political and economic context of the television industry It gives an account of television genres in particular narrative factual programmes and news and it considers the academic discipline of media studies and the ways in which theorists have analysed and tried to understand the medium It points to the interplay of theory and practice as it draws on the history of the medium and observes the ways in which the past continues to influence and invigorate the present The New Television Handbook includes contributions from practitioners ranging from established producers to new entrants a comprehensive list of key texts and television programmes a revised glossary of specialist terms a section on training and ways of getting into the industry By combining theory real world advice and a detailed overview of the industry and its history The New Television Handbook is an ideal guide for students of media and television studies and young professionals entering the television industry

Emerging Research on Networked Multimedia Communication Systems Kanellopoulos, Dimitris, 2015-08-14

Voice & Vision Mick Hurbis-Cherrier, Gustavo Mercado, 2025-04-23

Develop your creative voice whilst acquiring the practical skills and confidence to use it with this new and fully updated edition of Mick Hurbis Cherrier's filmmaking bible Voice interactive and high resolution figures extra technical chapters forms and logs for preproduction production and postproduction video examples that illustrate key concepts found within the book and more The fourth edition has been fully revised and includes updates to video formats camera technology and lighting tools expanded sections on multi camera shooting smartphone filmmaking and drone cinematography a new example short film for streaming and analysis discussions on emerging AI applications for film production additional information and resources on film set safety including best practices for intimacy scenes and updates to contemporary funding and distribution strategies Whether using it in the classroom or looking for a comprehensive reference Voice Vision details all that's needed to know about the filmmaking process delivered in an accessible and reader friendly format

Unveiling the Magic of Words: A Review of "**Digital Cinematography Fundamentals Tools**"

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