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Advances in digital technology led to the development of digital x-ray detectors that are currently in wide use for projection radiography, including Computed Radiography (CR) and Digital Radiography (DR). Digital Imaging Systems for Plain Radiography addresses the current technological methods available to medical imaging professionals to ensure the optimization of the radiological process concerning image quality and reduction of patient exposure. Based on extensive research by the authors and reference to the current literature, the book addresses how exposure parameters influence the diagnostic quality in digital systems, what the current acceptable radiation doses are for useful diagnostic images, and at what level the dose could be reduced to maintain an accurate diagnosis. The book is a valuable resource for both students learning the field and for imaging professionals to apply to their own practice while performing radiological examinations with digital systems. The chapters include: Where do you start? The digitization project; What are you digitizing? Instigation, selection and assessment; How do you digitize?; What are the next steps? Preparation and digitization; and What else is needed? Cataloguing, delivery and completion.". In general, image processing texts are intended for students of engineering and computer science, and there is little written at all on the specific requirements of medical image processing. Students of medical radiation science (Diagnostic radiography, Nuclear medicine, Radiation therapy) usually have minimal mathematical and computer science training and find the available texts incomprehensible. A text that explains the principles of image processing in minimally-mathematical language is needed for these students. Contrary to the claims of some textbook authors, the vast majority of technologists that process images do not need to understand the mathematics involved, but would nevertheless benefit from a thorough understanding of the general process. Understanding Forensic Digital Imaging offers the principles of forensic digital imaging and photography in a manner that is straightforward and easy to digest for the professional and student. It provides information on how to photograph any setting that may have forensic value, details how to follow practices that are acceptable in court, and recommends what variety of hardware and software are most valuable to a practitioner. In addition to chapters on basic topics such as light and lenses, resolution, and file formats, the book contains forensic-science-specific information on SWGIT and the use of photography in investigations and in court. Of particular note is Chapter 17, Establishing Quality Requirements, which offers information on how to create a good digital image, and is more comprehensive than any other source currently available. Covers topics that are of vital importance to the practicing professional Serves as an up-to-date reference in the rapidly evolving world of digital imaging Uses clear and concise language so that any reader can understand the technology and science behind digital imaging This authoritative text (the second part of a complete MSc course) provides mathematical methods required to describe images, image formation and different imaging systems, coupled with the principle techniques used for processing digital images. It is based on a course for postgraduates reading physics, electronic engineering, telecommunications engineering, information technology and computer science. This book relates the methods of processing and interpreting digital images to the 'physics' of imaging systems. Case studies reinforce the methods discussed, with examples of current research themes. Provides mathematical

methods required to describe images, image formation and different imaging systems Outlines the principle techniques used for processing digital images Relates the methods of processing and interpreting digital images to the ‘physics’ of imaging systems Well-documented scenes can prove to be invaluable pieces of evidence at trial, and the ability to take compelling photographs is a critical skill for forensic scientists and investigators. Practical Forensic Digital Imaging: Applications and Techniques is an up-to-date and thorough treatment of digital imaging in the forensic sciences. Balancing pr #2 on Photo.net's list of Best Photography Books of 2014! To create successful imagery, you need to balance technical know-how and aesthetic vision. In Camera & Craft, we deconstruct photographic principles in new ways to help you think through your process. Together with nine guest photographers, we explore photographic practice and follow up with inventive exercises and demonstrations that challenge you to engage with your tools—all with the goal of helping you work more creatively. Along the way are conversations with our guest photographers that address each topic, from how the professionals work with clients and models to what they think about as they look through the viewfinder. Here’s what you’ll find inside: Advice and insights from professionals working in a variety of fields, from photojournalism and portraiture to fine-art, landscape and commercial photography Technical explanations about how photographic tools work—so you can connect knowledge to your practice and work more instinctively and creatively Key steps for improving digital workflow Innovative exercises at the end of each chapter as well as on our companion website that encourage you to experiment with and understand the photographic process—from learning how far you can push your camera’s sensor to exploring the effects of neutral vs. creative color Interviews with technical and creative experts about developing skills and making images that matter This book is part of The Digital Imaging Masters Series, which features cutting-edge information from the most sought-after and qualified professionals and instructors in the photography field. Based on the progressive curriculum of the Master of Professional Studies in Digital Photography (MPS DP) program created by Katrin Eismann at the School of Visual Arts (SVA) in New York City, these books are the next best thing to being in the classroom with the Digital Photography Masters themselves. Learn to take photos like a professional with Tom Ang�s masterclass Join Tom Ang�s masterclass for a one-on-one guide to every aspect of digital photography. You�ll improve your skills, develop your eye and learn to take control of your camera. Learn to be a better photographer; find out how to imagine the results you want before achieving them. Discover how to master the complexities of lighting, composition and timing. Enhance your pictures with image manipulation, then start to specialise in what interests you; from sport to portrait, following Tom�s tips on taking genre photos. Tom Ang�s clear tutorials, practical assignments, step-by-step projects and inspirational examples of the photographer�s art teach you how to make the most of the creative freedom that digital photography offers. Soon you�ll be picture perfect every time. In the past decade, the way image based media is created, disseminated, and shared has changed exponentially, as digital imaging technology has replaced traditional film based media. Digital images have become the pervasive photographic medium of choice for the general public. Most libraries, archives, museums, and galleries have undertaken some type of digitisation program: converting their holdings into two dimensional digital images which are available for the general user via the Internet. This raises issues for those aiming to facilitate the creation and preservation of digital images whilst supplying and improving user access to image based material. Digital Images for the Information Professional provides an overview of the place of images in the changing information environment, and the use, function, and appropriation of digital images in both institutional and personal settings. Covering the history, technical underpinnings, sustainability, application, and management of digital images, the text is an accessible guide to both established and developing imaging technologies, providing those within the information sector with essential background knowledge of this increasingly ubiquitous medium. Introduction to digital imaging covering core techniques of image capture and display of monochrome and color images. Presents fundamental tools within a powerful mathematical framework. Containing illustrations, examples, and homework problems this book is suitable for advanced undergraduates and graduates in electrical engineering and computer science, and practitioners in industry. First published in 2012. We have all felt the frustration of wasting time, paper and effort hen our prints or web images don't match the images we see on our monitors. Fortunately, you're holding the resource that will help solve these problems. This book guides you through the hardware settings and software steps you'll need to post professional images and make stunning prints that showcase you artistic vision. In Color Managment & Quality Outprint, Tom P. Ashe, a color expert and gifted teacher, shows you how to color manage your files from input all the way through output, by clearly explaining how color works in our minds, on our monitors and computers and through our printers. This edition presents the most prominent topics and applications of digital image processing, analysis, and computer graphics in the field of cultural heritage preservation. The text assumes prior knowledge of digital image processing and computer graphics fundamentals. Each chapter contains a table of contents, illustrations, and figures that elucidate the presented concepts in detail, as well as a chapter summary and a bibliography for further reading. Well-known experts cover a wide range of topics and related applications, including spectral imaging, automated restoration, computational reconstruction, digital reproduction, and 3D models. First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company. Turn your digital camera and desktop printer into a state-of-the-art design studio! An Introduction to Digital Imaging with Photoshop 7 is the perfect choice for students and hobbyists who want to experiment with all of the variables involved in successful digital imaging while learning how to use AdobeÂ® PhotoshopÂ®. Unlike software manuals that can be complicated and intimidating, the clear and concise presentation of information in this book allows future digital artists to adopt an intuitive, "right-brain" approach to mastering the basics. Exercises and assignments make it easy to get started creating and manipulating digital images for application to print, multimedia, video, and the Internet. In-depth coverage of scanning and digitizing, plus detailed instruction in how to use Photoshop features and apply special effects, exposes readers to a host of exciting and very contemporary possibilities. An interactive CD-ROM is also included to enable users to search for examples that illustrate specific techniques and review the steps necessary to create these images. A "must" for anyone seeking an entrÃ©e to the world of photography in a contemporary age â€“ with more techniques than ever before â€“ this how-to manual and long-lasting reference provides a complete course in the fundamentals of creating photographic art using a camera and the computer. From a well-known digital imaging expert comes an engagingly well-written, to-the-point guide that allows readers to quickly get the results they want. The full-color interior features an elegant design and example images from well-known photographers. The silver-based emulsion and chemical process used successfully for many years for the capture and storage of images has now largely been superseded by the introduction of digital technology. The widespread use of digital cameras among imaging professionals, archaeologists and the general public has created a vast array of digital information. If this information is to be of use now and for future generations, it requires the application of a systematic approach to how it is captured and stored. Digital technology is still in its infancy compared with the long-established technique of using silver-based emulsions on glass plate or film to produce images that have, with suitable development and storage, proven to be stable and enduring. Some would argue that our records should still be made in this way, but film is becoming more difficult to source. In addition, film-processing laboratories are disappearing from our high streets, making local processing a thing of the past in all but the largest cities. The tide has turned in favour of digital image capture, which offers many benefits that offset its unproven longevity. However, part of the problem with the digital environment is that its boundaries and possibilities are constantly changing. This publication offers guidance on digital image capture and storage to assist those involved with the making and keeping of images of the historic environment. It does not provide definitive answers regarding the problems of taking and storing digital images but does provide an overview of current recommendations. It happens all too often: The vague images of a poor quality video from a surveillance camera splash across the screen in a darkened courtroom and the guilt or innocence of the defendant hinges on whether or not the jury can determine if he or she is really the person in those images. Interpretation and misinterpretation of information about imagin From one of the world's leading experts on digital imaging, this real-world guide provides hard-to-find information vital to everyone from programmers to computer artists. The CD-ROM's complete programming examples let users test the included algorithms and fine-tune them to create custom applications.Howard Burdick focuses on the hands-on aspects of digital imaging and practical applications in areas such as business, entertainment, and medicine. Digital cameras, scanners, and laser film recorders are covered, as well as all important related topics. "This hands-on guide clarifies the difference between

what can be done digitally and what should be done in a forensic setting, and helps the reader "learn by doing" with exercises and step-by-step instructions. The images and exercises in the CD-ROM provide practical examples of the techniques described in the book." "Law enforcement professionals who follow the recommendations in this text can feel confident that their handling of imaging evidence will stand up to the high standards necessary for prosecuting criminal cases."--BOOK JACKET. In Digital Image Systems, Claus Gunti examines the antagonizing reactions to digital technologies in photography. While Thomas Ruff, Andreas Gursky and Jörg Sasse have gradually adopted digital imaging tools in the early 1990s, other photographers from the Düsseldorf School have remained faithful to film-based technologies. By evaluating the aesthetic and discursive preconditions of this situation and by extensively analyzing the digital work of these three photographers, this book shows that the digital turn in photography was anticipated by the conceptualization of images within systems, and thus offers new perspectives for understanding the »digital revolution«. A comprehensive and practical analysis and overview of the imaging chain through acquisition, processing and display The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam, focusing on the capture, storage and display of images. The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source (image acquisition) to destination (image print/display). The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems. The content will be drawn from all aspects of digital imaging including optics, sensors, quality, control, colour encoding and decoding, compression, projection and display. Contains approximately 50 highly illustrated articles printed in full colour throughout Over 50 Contributors from Europe, US and Asia from academia and industry The 3 volumes are organized thematically for enhanced usability: Volume 1: Image Capture and Storage; Volume 2: Image Display and Reproduction, Hardcopy Technology, Halftoning and Physical Evaluation, Models for Halftone Reproduction; Volume 3: Imaging System Applications, Media Imaging, Remote Imaging, Medical and Forensic Imaging 3 Volumes www.handbookofdigitalimaging.com This authoritative guide to color theory and color reproduction in the graphic arts contains comprehensive coverage of all facets of color, from color vision and measurement to the elusive but critical topics of color quality objectives and color communication and digital imaging technologies. Covering ideas and methods while concentrating on fundamentals, this book includes wave motion; digital imaging; digital filtering; visualization aspects of the seismic reflection method; sampling theory; the frequency spectrum; synthetic seismograms; wavelet processing; deconvolution; seismic attributes; phase rotation; and seismic attenuation. Visual perception is a complex process requiring interaction between the receptors in the eye that sense the stimulus and the neural system and the brain that are responsible for communicating and interpreting the sensed visual information. This process involves several physical, neural, and cognitive phenomena whose understanding is essential to design effective and computationally efficient imaging solutions. Building on advances in computer vision, image and video processing, neuroscience, and information engineering, perceptual digital imaging greatly enhances the capabilities of traditional imaging methods. Filling a gap in the literature, Perceptual Digital Imaging: Methods and Applications comprehensively covers the system design, implementation, and application aspects of this emerging specialized area. It gives readers a strong, fundamental understanding of theory and methods, providing a foundation on which solutions for many of the most interesting and challenging imaging problems can be built. The book features contributions by renowned experts who present the state of the art and recent trends in image acquisition, processing, storage, display, and visual quality evaluation. They detail advances in the field and explore human visual system-driven approaches across a broad spectrum of applications, including: Image quality and aesthetics assessment Digital camera imaging White balancing and color enhancement Thumbnail generation Image restoration Super-resolution imaging Digital halftoning and dithering Color feature extraction Semantic multimedia analysis and processing Video shot characterization Image and video encryption Display quality enhancement This is a valuable resource for readers who want to design and implement more effective solutions for cutting-edge digital imaging, computer vision, and multimedia applications. Suitable as a graduate-level textbook or stand-alone reference for researchers and practitioners, it provides a unique overview of an important and rapidly developing research field. This is the second edition of a very popular book on DICOM that introduces this complex standard from a very practical point of view. It is aimed at a broad audience of radiologists, clinical administrators, information technologists, medical students, and lecturers. The book provides a gradual, down to earth introduction to DICOM, accompanied by an analysis of the most common problems associated with its implementation. Compared with the first edition, many improvements and additions have been made, based on feedback from readers. Whether you are running a teleradiology project or writing DICOM software, this book will provide you with clear and helpful guidance. It will prepare you for any DICOM projects or problem solving, and assist you in taking full advantage of multifaceted DICOM functionality. If you're exploring a career in digital imaging or design, then you're likely to encounter Photoshop along the way--you probably already have. But how well do you know it? Understanding Adobe Photoshop: Digital Image Concepts and Techniques goes beyond the school newspaper or internship and teaches you the fundamental digital imaging techniques in Adobe Photoshop and Photoshop Elements that you'll need to succeed both in the classroom and the workforce. While many Photoshop books focus on features, tools, or techniques, this book covers both the basics and delves into specific skills, tricks, and uses in multimedia. With a friendly style and interactive DVD-ROM, Richard Harrington covers digital imaging basics (correcting, editing, sharpening, retouching, and presenting photos) and shows you real-world projects and exercises, including: digital painting; designing a CD/DVD label, magazine cover, and advertisements; creating Web sites/animations; and more! This textbook is the third of three volumes which provide a modern, algorithmic introduction to digital image processing, designed to be used both by learners desiring a firm foundation on which to build, and practitioners in search of critical analysis and concrete implementations of the most important techniques. This volume builds upon the introductory material presented in the first two volumes with additional key concepts and methods in image processing. Features: practical examples and carefully constructed chapter-ending exercises; real implementations, concise mathematical notation, and precise algorithmic descriptions designed for programmers and practitioners; easily adaptable Java code and completely worked-out examples for easy inclusion in existing applications; uses ImageJ; provides a supplementary website with the complete Java source code, test images, and corrections; additional presentation tools for instructors including a complete set of figures, tables, and mathematical elements. The first book to help the modern radiographer and radiologist to understand how digital imaging, manipulation and storage systems work. The study of papyri has been significantly limited, and because of their fragile and fragmentary condition, papyri pose significant preservation and research challenges. This report explores the use of digitization to overcome these difficulties. The Advanced Papyrological Information System (APIS) established a committee charged with studying imaging and other current technological developments and establishing standards for the field. An APIS contract with the Commission on Preservation and Access supported this study of the imaging component of the planned system that would answer the following questions: (1) Is electronic imaging now capable of serving as the main means of capturing the images of papyri and similar objects for research access and for preservation?; (2) What objectives must be met in such imaging?; (3) What technical standards should be established to accomplish those objectives and preserve the interchangeability and permanence of data?; (4) What are the limits of present technology, the controls and safeguards needed to ensure data quality and integrity, and the means of preventing obsolescence of the product? and (5) How well can currently available equipment satisfy the standards and objectives? This report relates the purpose and methods of the APIS study, defines archival and delivered images, discusses ways and means for capturing physical attributes of papyri and the preferred methods of capture, details technical standards and specifications, and ends with a brief discussion of quality control, migration, and refreshment issues. A list of participants in the Conference on Digital Imaging of Papyri (University of Michigan, March 3-5, 1994) is provided. (Contains 13 references.) (MAS) In the fields of documentation and conservation of cultural heritage assets, there is a constant need for higher quality records and better analytical tools for extracting information about the condition of artefacts. Digital photography and digital image processing provide these capabilities, and recent technological advances in both fields promise new levels of performance for the capture and understanding of colour images. This inter-disciplinary book covers the imaging of decorated surfaces in historical buildings and the digitisation of documents, paintings and objects in museums and galleries, and shows how user requirements can be met by application of

powerful digital imaging techniques. Numerous case studies illustrate the methods. Advances in digital technology led to the development of digital x-ray detectors that are currently in wide use for projection radiography, including Computed Radiography (CR) and Digital Radiography (DR). Digital Imaging Systems for Plain Radiography addresses the current technological methods available to medical imaging professionals to ensure the optimization of the radiological process concerning image quality and reduction of patient exposure. Based on extensive research by the authors and reference to the current literature, the book addresses how exposure parameters influence the diagnostic quality in digital systems, what the current acceptable radiation doses are for useful diagnostic images, and at what level the dose could be reduced to maintain an accurate diagnosis. The book is a valuable resource for both students learning the field and for imaging professionals to apply to their own practice while performing radiological examinations with digital systems. CD-ROM contains: Selected images from text -- Animations -- Software. The digital revolution has added a myriad of possibilities for artistic and creative interpretation and, with no need for darkrooms and chemical processing, printing a black-and-white photograph could hardly be easier. Structured around the three main areas of shooting the image, enhancing the image and enjoying the image, the Digital Photography series makes the world of digital imaging simple while concentrating on the photographic aspect. With the aid of inspirational images we are shown in easy steps how the image was taken, manipulated on the computer and output in the desired form. A truly inspirational text, teaching you all the essential skills and encouraging visual self-expression leading to the ultimate creation of stunning digital photography. Australian authors' Galer and Horvat from RMIT. It’s a whole new world for cinematographers, camera assistants, and postproduction artists. New equipment, new methods, and new technologies have to be learned and mastered. New roles such as that of the DIT (Digital Imaging Technician), Digital Loader, and Data Manager are integral to today’s motion picture production process. Take your mastery of these new tools, techniques, and roles to the next level with this cutting-edge roadmap from esteemed author and filmmaker Blain Brown. The Filmmaker’s Guide to Digital Imaging covers both the theory and the practice, featuring full-color, in-depth coverage of essential terminology, technology, and industry-standard best-practices. Brown covers new industry-wide production standards such as ASC-CDL and the ACES workflow. Interviews with professional cinematographers and DITs working on Hollywood productions equip you with knowledge that is essential if you want to work in today’s motion picture industry, whether as a cinematographer, DIT, Digital Loader, Data Manager, camera assistant, editor, or VFX artist. Topics include: Digital sensors and cameras The structure of digital images Waveform monitors, vectorscopes, and test charts Using linear, gamma, and log encoded video files Exposure techniques for HD and UltraHD Understanding digital color Codecs and file formats The DIT cart Downloading, ingesting, and managing video files Workflow from camera to DIT cart to post Using metadata and timecode The companion website (www.focalpress.com/cw/brown) features additional material, including demonstrations and interviews with experienced DITs and cinematographers.

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