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Process Analytical Technology for the Food Industry Colm P. O'Donnell 2014-11-03 The Process Analytical Technology (PAT) initiative aims to move from a paradigm of 'testing quality in' to 'building quality in by design'. It can be defined as the optimal application of process analytical technologies, feedback process control strategies, information management tools, and/or product-process optimization strategies. Recently, there have been significant advances in process sensors and in model-based monitoring and control methodologies, leading to enormous opportunities for improved performance of food manufacturing processes and for the quality of food products with the adoption of PAT. Improvements in process efficiency, reduced product variability, enhanced traceability, process understanding, and decreased risk of contamination are some of the benefits arising from the introduction of a PAT strategy in the food industry. *Process Analytical Technology for the Food Industry* reviews established and emerging PAT tools with potential application within the food processing industry. The book will also serve as a reference for industry, researchers, educators, and students by providing a comprehensive insight into the objectives, challenges, and benefits of adopting a Process Analytical Technology strategy in the food industry.

Understanding How We Learn Yana Weinstein 2018-08-22 Educational practice does not, for the most part, rely on research findings. Instead, there's a preference for relying on our intuitions about what's best for learning. But relying on intuition may be a bad idea for teachers and learners alike. This accessible guide helps teachers to integrate effective, research-backed strategies for learning into their classroom practice. The book explores exactly what constitutes good evidence for effective learning and teaching strategies, how to make evidence-based judgments instead of relying on intuition, and how to apply findings from cognitive psychology directly to the classroom. Including real-life examples and case studies, FAQs, and a wealth of engaging illustrations to explain complex concepts and emphasize key points, the book is divided into four parts: Evidence-based education and the science of learning Basics of human cognitive processes Strategies for effective learning Tips for students, teachers, and parents. Written by "The Learning Scientists" and fully illustrated by Oliver Caviglioli, *Understanding How We Learn* is a rejuvenating and fresh examination of cognitive psychology's application to education. This is an essential read for all teachers and educational practitioners, designed to convey the concepts of research to the reality of a teacher's classroom.

Influencer Marketing Strategy Gordon Glenister 2021-03-03 Create an influencer marketing strategy that benefits both brand and the influencer with this fascinating guide, rich in case studies from the biggest and the best and the small and specialist. Influencer marketing can no longer be ignored. Whether it's broad scale celebrity endorsement, or micro-influencers with niche, highly targeted followings, influencer marketing has become a natural extension of content marketing. However, while the opportunities are vast, the very nature of influencer marketing means that a brand must relinquish control of their marketing message to allow the influencer to communicate in their natural style. This can be unnerving, and it's therefore imperative to have a clearly defined campaign that mutually benefits and protects both the brand and the influencer. *Influencer Marketing Strategy* gives readers everything they need to create influencer marketing strategy. It will walk readers through the key considerations, and offer insight into decisions such as choosing the right influencer, planning content, and how to incorporate influencer marketing into your wider marketing strategy. This book presents fascinating, in-depth case studies from the beauty, fashion, gaming,

travel, health and tech industries, demonstrating the variety of ways that influencer marketing can be utilized, and the huge opportunities it presents for organizations and industries of all sizes. *Influencer Marketing Strategy* is the ultimate guide to developing a successful influencer marketing strategy - and building campaigns that create real value.

Contentious Kwangju Gi-Wook Shin 2003 One of the largest political protests in contemporary Korean history, the May 1980 Kwangju Uprising still exerts a profound, often contested, influence in Korean society. Through a deft combination of personal reflections and academic analysis, *Contentious Kwangju* offers a comprehensive examination of the multiple, shifting meanings of this seminal event and explains how the memory of Kwangju has affected Korean life from politics to culture. In keeping with the book's title, the essays offer competing interpretations of the Kw.

Open Source GIS: A GRASS GIS Approach Markus Neteler 2008-01-17 Since the first edition of *Open Source GIS: A GRASS GIS Approach* was published in 2002, GRASS has undergone major improvements. This second edition includes numerous updates related to the new development; its text is based on the GRASS 5.3 version from December 2003. Besides changes related to GRASS 5.3 enhancements, the introductory chapters have been re-organized, providing more extensive information on import of external data. Most of the improvements in technical accuracy and clarity were based on valuable feedback from readers. *Open Source GIS: A GRASS GIS Approach, Second Edition*, provides updated information about the use of GRASS, including geospatial modeling with raster, vector, and site data, image processing, visualization, and coupling with other open source tools for geostatistical analysis and web applications. A brief introduction to programming within GRASS encourages new development. The sample data set used throughout the book has been updated and is available on the GRASS web site. This book also includes links to sites where the GRASS software and on-line reference manuals can be downloaded and additional applications can be viewed.

The Coffin Dancer Jeffery Deaver 2019-10-01 SOON TO BE A MAJOR TELEVISION EVENT FROM NBC, STARRING RUSSELL HORNSBY, ARIELLE KEBBEL, AND MICHAEL IMPERIOLI. "Lincoln Rhyme is more relentless than ever" (People) and Jeffery Deaver delivers "supercharged tension" (USA TODAY) in this New York Times bestselling suspense masterwork. NYPD criminalist Lincoln Rhyme joins his beautiful protégée Amelia Sachs, in the hunt for the Coffin Dancer—an ingenious killer who changes his appearance even faster than he adds to his trail of victims. They have only one clue: the madman has a tattoo of the Grim Reaper waltzing with a woman in front of a coffin. Rhyme must rely on his wits and intuition to track the elusive murderer through New York City—knowing they have only forty-eight hours before the Coffin Dancer strikes again. This is a "heart-stopping" (Booklist) thriller from #1 international bestselling author Jeffery Deaver's "simply outstanding" (San Jose Mercury News) Lincoln Rhyme series!

WIPO Technology Trends 2019 - Artificial Intelligence World Intellectual Property Organization 2019-01-21 The first report in a new flagship series, *WIPO Technology Trends*, aims to shed light on the trends in innovation in artificial intelligence since the field first developed in the 1950s.

PISA The ABC of Gender Equality in Education Aptitude, Behaviour, Confidence OECD 2015-03-05 This fascinating compilation of the recent data on gender differences in education presents a wealth of data, analysed from a multitude of angles in a clear and lively way.

Rebellion and Authority Nathan Leites 1970

The Broken Window Jeffery Deaver 2008-06-10 Chasing down a vicious serial killer who complicates his crimes by leaving behind iron-clad evidence implicating innocent people, Lincoln Rhyme and Amelia Sachs reluctantly team up for the investigation only to find themselves rendered the killer's next targets. By the author of *The Cold Moon*. 300,000 first printing.

Intelligent Systems Alex Meystel 2002 This comprehensive treatment of the field of intelligent systems is written by two of the foremost authorities in the field. The authors clearly examine the theoretical and practical aspects of these systems. The book focuses on the NIST-RCS (Real-time Control System) model that has been used recently in the Mars Rover.

Projection Displays Matthew S. Brennessoltz 2008-10-13 Projection is a technology for generating large, high resolution images at a price point end users can afford. This allows it to be used in a wide variety of large-screen markets such as television and cinema. In addition, there are emerging small screen markets where a pocketable miniaturized projector can display images from mobile information devices such as smart phones or portable media players. Fully revised, this second edition of *Projection Displays* provides up-to-date coverage of the optical and mechanical systems in electronic projection displays. It takes into account major new developments in the many technologies needed to manufacture a projector display system. It presents a comprehensive review of projector architectures, systems, components and devices. Key new and updated features include: new material on light sources for projection displays; updated information on the human factors of projection displays including color gamuts, resolution and speckle; coverage of new image generating systems including LCOS and scanned laser systems; up to date information on front and rear projection screens; practical examples of projection display applications; models for predicting the performance of optical and mechanical systems This book is aimed at practicing engineers and researchers involved in the research, development, design and manufacture of projection displays. It includes key aspects from the many technologies contributing to projection systems such as illumination sources, optical design, electronics, semiconductor design, microdisplay systems and mechanical engineering. The book will also be of interest to graduate students taking courses in display technology and imaging science, as well as students of the many other engineering, physics and optics disciplines that lead into the field of projection displays. The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field of information display. Complementary to the aims of the society, the Wiley-SID series is intended to explain the latest developments in information display technology at a professional level. The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics

Real-Time Video Compression Raymond Westwater 1996-10-31 *Real-Time Video Compression: Techniques and Algorithms* introduces the XYZ video compression technique, which operates in three dimensions, eliminating the overhead of motion estimation. First, video compression standards, MPEG and H.261/H.263, are described. They both use asymmetric compression algorithms, based on motion estimation. Their encoders are much more complex than decoders. The XYZ technique uses a symmetric algorithm, based on the Three-Dimensional Discrete Cosine Transform (3D-DCT). 3D-DCT was originally suggested for compression about twenty years ago; however, at that time the computational complexity of the algorithm was too high, it required large buffer memory, and was not as effective as motion estimation. We have resurrected the 3D-DCT-based video compression algorithm by developing several enhancements to the original algorithm. These enhancements make the algorithm feasible for real-time video compression in applications such as video-on-demand, interactive multimedia, and videoconferencing. The demonstrated results, presented in this book, suggest that the XYZ video compression technique is not only a fast algorithm, but also provides superior compression ratios and high quality of the video compared to existing standard techniques, such as MPEG and H.261/H.263. The elegance of the XYZ technique is in its simplicity, which leads to inexpensive VLSI implementation of any XYZ codec. *Real-Time Video Compression: Techniques and Algorithms* can be used as a text for graduate students and researchers working in the area of real-time video compression. In addition, the book serves as an essential reference for professionals in the field.

Hierarchy, Markets and Networks Toby Greany 2018

Modern Tarot Michelle Tea 2017-06-13 The beloved literary iconoclast delivers a fresh twenty-first century primer on tarot that can be used with any deck. While tarot has gone mainstream with a diverse range of tarot decks widely available, there has been no equally mainstream guide to the tarot—one that can be applied to any deck—until now. Infused with beloved iconoclastic author Michelle Tea's unique insight, inviting pop sensibility, and wicked humor, *Modern Tarot* is a fascinating journey through the cards that teaches how to use this tradition to connect with our higher selves. Whether you're a committed seeker or a digital-age skeptic—or perhaps a little of both—Tea's essential guide opens the power of tarot to you. *Modern Tarot* doesn't require you to believe in the supernatural or narrowly focus on the tarot as a divination tool. Tea instead provides incisive descriptions of each of the 78 cards in the tarot system—each illustrated in the charmingly offbeat style of cartoonist Amanda Verwey—and introduces specially designed card-based rituals that can be used with any deck to guide you on a path toward radical growth and self-improvement. Tea reveals how tarot offers moments of deep, transformative connection—an affirming, spiritual experience that is gentle, individual, and aspirational. Grounded in Tea's twenty-five years of tarot wisdom and her abiding love of the cards, and featuring 78 black and white illustrations throughout, *Modern Tarot* is the ultimate introduction to the tradition of the tarot for millennial readers.

The MPEG Handbook John Watkinson 2004 First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

Dual Coding for Teachers Oliver Caviglioli 2019-06-04 As part of the discovery of cognitive science, teachers are waking up to the powers of dual coding - combining words with visuals in your teaching. But cognitive scientists aren't graphic designers, and so their books don't show teachers how to be competent in producing effective visuals. There is a huge gap between what we know about dual coding and the skills needed to practice it effectively in the classroom. Until now. *Dual Coding With Teachers* is a breakthrough educational book. No other book has been designed with both cognitive science and graphic principles in mind. Every page contains diagrams, infographics, illustrations and graphic organisers. The book is designed to cater for both the busy teacher in a rush, as well as the research-hungry colleague. Over 35 teachers, teacher developers, psychologists and information designers are profiled, each with a double-page spread, highlighting their dual coding practice. The author, Oliver Caviglioli, is uniquely placed to bridge the gap between education and graphic design. A former special school head teacher, Oliver learned design principles from an early age from his architect and typographer father. Four decades of reading educational research has found its visual expression in this spectacular, image-rich book.

Wireless Video Communications Lajos Hanzo 2001-03-12 Bridging the gap between the video compression and communication communities, this unique volume provides an all-encompassing treatment of wireless video communications, compression, channel coding, and wireless transmission as a joint subject. *WIRELESS VIDEO COMMUNICATIONS* begins with relatively simple compression and information theoretical principles, continues through state-of-the-art and future concepts, and concludes with implementation-ready system solutions. This book's deductive presentation and broad scope make it essential for anyone interested in wireless communications. It systematically converts the lessons of Shannon's information theory into design principles applicable to practical wireless systems. It provides in a comprehensive manner "implementation-ready" overall system design and performance studies, giving cognizance to the contradictory design requirements of video quality, bit rate, delay, complexity error resilience, and other related system design aspects. Topics covered include information theoretical foundations block-based and convolutional channel coding very-low-bit-rate video codecs and multimode videophone transceivers high-resolution video coding using both proprietary and standard schemes CDMA/OFDM systems, third-generation and beyond adaptive video systems. *WIRELESS VIDEO COMMUNICATIONS* is a valuable reference for postgraduate researchers, system engineers, industrialists, managers and visual communications practitioners.

Digital Photoelasticity K. Ramesh 2000-03-06 A straightforward introduction to basic concepts and methodologies for digital photoelasticity, providing a foundation on which future researchers and students can develop their own ideas. The book thus promotes research into the formulation of problems in digital photoelasticity and the application of these techniques to industries. In one volume it provides data acquisition by DIP techniques, its analysis by statistical techniques, and its presentation by computer graphics plus the use of rapid prototyping technologies to speed up the entire process. The book not only

presents the various techniques but also provides the relevant time-tested software codes. Exercises designed to support and extend the treatment are found at the end of each chapter.

The Lost Tarot of Nostradamus John Matthews 2021-04-15 A deck with card art drawn from original Nostradamus imagery is accompanied by a paperback explaining the history and prophecies of Michel de Nostredame.

Oxford Revise: AQA GCSE Physics Revision and Exam Practice Helen Reynolds 2020-10-08 Based on principles of cognitive science, this three-step approach to effective revision combines knowledge, retrieval and interleaving, and extensive exam-style practice to help students master knowledge and skills for GCSE success. UK schools save 50% off the RRP! Discount will be automatically applied when you order on your school account.

Virtual Worlds Jean-Claude Heudin 2003-05-20 1 Introduction Imagine a virtual world with digital creatures that looks like real life, sounds like real life, and even feels like real life. Imagine a virtual world not only with nice three dimensional graphics and animations, but also with realistic physical laws and forces. This virtual world could be familiar, reproducing some parts of our reality, or unfamiliar, with strange "physical" laws and artificial life forms. As a researcher interested in the sciences of complexity, the idea of a conference about virtual worlds emerged from frustration. In the last few years, there has been an increasing interest in the design of artificial environments using image synthesis and virtual reality. The emergence of industry standards such as VRML [1] is an illustration of this growing interest. At the same time, the field of Artificial Life has addressed and modeled complex phenomena such as self organization, reproduction, development, and evolution of artificial life like systems [2]. One of the most popular works in this field has been *Tierra* designed by Tom Ray: an environment producing synthetic organisms based on a computer metaphor of organic life in which CPU time is the "energy" resource and memory is the "material" resource [3]. Memory is organized into informational patterns that exploit CPU time for self replication. Mutation generates new forms, and evolution proceeds by natural selection as different creatures compete for CPU time and memory space.

The Laboratory Microcomputer James William Cooper 1984

Introduction to Probability Models Sheldon M. Ross 2006-12-11 Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics

International Management Paul D. Sweeney 2014-09-19 As the economies of many countries become more interrelated, international managers are facing huge challenges and unique opportunities associated with their roles. Now in its fifth edition, Sweeney and McFarlin's International Management embodies a balanced and integrated approach to the subject, emphasizing the strategic opportunities available to firms

on a global playing field, as well as exploring the challenges of managing an international workforce. Integrating theory and practice across all chapter topics, this book helps students to learn, grasp, and apply the underlying principles of successful international management: Understanding the broad context of international business, including the critical trends impacting international management, the legal and political forces driving international business, and the ethical and cultural dilemmas that can arise Mastering the essential elements of effective interaction in the international arena, from cross-cultural understanding and communication to cross-border negotiation Recognizing and taking advantage of strategic opportunities, such as entering and operating in foreign markets Building and leading effective international teams, including personal and behavioral motivation, as well as taking an international perspective on the hiring, training, and development of employees These principles are emphasized in the text with current examples and practical applications, establishing a foundation for students to apply their understanding in the current global business environment. With a companion website featuring an instructor's manual, powerpoint slides, and a testbank, International Management, 5e is a superb resource for instructors and students of international management.

The Boy Who Grew Dragons Andy Shepherd 2020-02-04 "'The Boy Who Grew Dragons' is good-hearted fantasy fun."-New York Times Book Review "This gently funny title is a must-purchase for public libraries, and a great recommendation for readers of all ages"-School Library Journal, STARRED REVIEW "Never has so much toilet humor been so charming."-Kirkus Reviews "Readers will be eager for more."-Booklist This hilarious middle-grade novel with illustrations throughout sees Tomas discover that he can grow dragons in his own garden! When Tomas discovers a strange old tree at the bottom of his grandfather's garden, he doesn't think much of it. But he takes the funny fruit from the tree back into the house and gets the shock of his life when a tiny dragon hatches! The tree is a dragon fruit tree, and Tomas now has his very own dragon, Flicker! While Tomas finds out that life with Flicker is fun, he also finds that it is very...unpredictable. Yes, dragons are wonderful, but they also set fire to your toothbrush and leave your underwear hanging from the TV antenna. Tomas has to learn how to look after Flicker---and quickly! And then something extraordinary happens: More dragon fruits appear on the tree! Now it's official, Tomas is growing dragons.

TOVPIX D. M. O'Brien 1985

Six Tires, No Plan Michael Rosenbaum 2012-03-01 Most Unlikely to Succeed No one who charted Bruce Halle's early years would predict that the poor kid from New Hampshire might achieve greatness as an adult. Challenged in school and growing up in a struggling family, Halle looked like every other kid who would leave high school in the 1940s and disappear into a factory. Instead, Halle created one of America's most respected companies, rose to join the Forbes magazine list of the four hundred richest Americans and serve as the role model for the ordinary Joes who seek out success at Discount Tire Company. *Six Tires, No Plan* maps Halle's journey out of poverty and failure and reveals the deceptively simple values that drive success for him, his company and thousands of employees. Key among those principles is Halle's commitment to passing on his good fortune to the thousands of employees who serve his customers every day. This is Halle's true passion, and paying it forward to the ordinary guy is a cornerstone of Discount Tire's ongoing success. Avoiding the spotlight, crediting his employees for the success of the company, Halle demonstrates the incredible power of perseverance and fundamental values to create long-term success. His journey offers a roadmap worth following in both career and life.

Data Mining Sushmita Mitra 2003-09-25 Table of contents

A Textbook Case (a Lincoln Rhyme story) Jeffery Deaver 2013-04-02 From Jeffery Deaver--the New York Times bestselling author of the upcoming Lincoln Rhyme novel THE KILL ROOM (on sale June 4, 2013)--comes an original short story featuring Rhyme. When a young woman is found brutally murdered in a parking garage, with a veritable mountain of potential evidence to sift through, it may be the most challenging case former NYPD detective Lincoln Rhyme has ever taken on.

Computational Texture and Patterns Kristin J. Dana 2018-09-13 Visual pattern analysis is a fundamental tool in mining data for knowledge. Computational representations for patterns and texture allow us to summarize, store, compare, and label in order to learn about the physical world. Our ability to capture visual imagery with cameras and sensors has resulted in vast amounts of raw data, but using this information effectively in a task-specific manner requires sophisticated computational representations. We enumerate

specific desirable traits for these representations: (1) intraclass invariance—to support recognition; (2) illumination and geometric invariance for robustness to imaging conditions; (3) support for prediction and synthesis to use the model to infer continuation of the pattern; (4) support for change detection to detect anomalies and perturbations; and (5) support for physics-based interpretation to infer system properties from appearance. In recent years, computer vision has undergone a metamorphosis with classic algorithms adapting to new trends in deep learning. This text provides a tour of algorithm evolution including pattern recognition, segmentation and synthesis. We consider the general relevance and prominence of visual pattern analysis and applications that rely on computational models.

Chaos & Complexity Brian Howard Kaye 1993

Pattern Models Narendra Ahuja 1983

Surveillance and Reconnaissance Imaging Systems Jon C. Leachtenauer 2001 Here's an up-to-date, comprehensive review of surveillance and reconnaissance (S & R) imaging system modeling and performance prediction. This new, one-of-a-kind resource helps you predict the information potential of new surveillance system designs, compare and select from alternative measures of information extraction, relate the performance of tactical acquisition sensors and surveillance sensors, and understand the relative importance of each element of the image chain on S& R system performance. It provides you with system descriptions and characteristics, S& R modeling history, and performance modeling details.

The Boy at the Back of the Class Onjali Q. Raúf 2019-08-06 Told with humor and heart, *The Boy at the Back of the Class* offers a child's perspective on the refugee crisis, highlighting the importance of friendship and kindness in a world that doesn't always make sense. There used to be an empty chair at the back of Mrs. Khan's classroom, but on the third Tuesday of the school year a new kid fills it: nine-year-old Ahmet, a Syrian refugee. The whole class is curious about this new boy--he doesn't seem to smile, and he doesn't talk much. But after learning that Ahmet fled a Very Real War and was separated from his family along the way, a determined group of his classmates bands together to concoct the Greatest Idea in the World--a magnificent plan to reunite Ahmet with his loved ones. This accessible, kid-friendly story about the refugee crisis highlights the community-changing potential of standing as an ally and reminds readers that everyone deserves a place to call home. "This moving and timely debut novel tells an enlightening, empowering, and ultimately hopeful story about how compassion and a willingness to speak out can change the world." -- School Library Journal, Starred Review Overall Winner of the 2019 UK Waterstones Children's Book Prize Winner of the 2019 UK Blue Peter Book Award A CLIP Carnegie Medal Children's Book Award Nominee [New GCSE English Language AQA Workbook - For the Grade 9-1 Course \(Includes Answers\)](#) CGP Books 2015-08-10

Compressed Video Over Networks Ming-Ting Sun 2000-09-22 This volume details the essential elements for designing optimal end-to-end systems. It progresses from the fundamentals of both video compression and networking technologies to an extensive summary of the constant and continuous interaction between the fields. The work seeks to respond to the proliferation of networked digital video applications in daily life

with in-depth analyses of technical problems and solutions.

Chavez and the Farm Workers Ronald B. Taylor 1975

Neil Armstrong Jay Barbree 2014-07-08 Much has been written about Neil Armstrong, America's modern hero and history's most famous space traveler. Yet shy of fame and never one to steal the spotlight Armstrong was always reluctant to discuss his personal side of events. Here for the first time is the definitive story of Neil's life of flight he shared for five decades with a trusted friend - Jay Barbree. Working from 50 years of conversations he had with Neil, from notes, interviews, NASA spaceflight transcripts, and remembrances of those Armstrong trusted, Barbree writes about Neil's three passions - flight, family, and friends. This is the inside story of Neil Armstrong from the time he flew combat missions in the Korean War and then flew a rocket plane called the X-15 to the edge of space, to when he saved his Gemini 8 by flying the first emergency return from Earth orbit and then flew Apollo-Eleven to the moon's Sea of Tranquility. Together Neil and Jay discussed everything, from his love of flying, to the war years, and of course his time in space. The book is full of never-before-seen photos and personal details written down for the first time, including what Armstrong really felt when he took that first step on the moon, what life in NASA was like, his relationships with the other astronauts, and what he felt the future of space exploration should be. As the only reporter to have covered all 166 American astronaut flights and moon landings Jay knows these events intimately. Neil Armstrong himself said, "Barbree is history's most experienced space journalist. He is exceptionally well qualified to recall and write the events and emotions of our time." Through his friendship with Neil and his dedicated research, Barbree brings us the most accurate account of his friend's life of flight, the book he planned for twenty years.

A Biography of the Pixel Alvy Ray Smith 2021-08-03 The pixel as the organizing principle of all pictures, from cave paintings to Toy Story. The Great Digital Convergence of all media types into one universal digital medium occurred, with little fanfare, at the recent turn of the millennium. The bit became the universal medium, and the pixel--a particular packaging of bits--conquered the world. Henceforward, nearly every picture in the world would be composed of pixels--cell phone pictures, app interfaces, Mars Rover transmissions, book illustrations, videogames. In *A Biography of the Pixel*, Pixar cofounder Alvy Ray Smith argues that the pixel is the organizing principle of most modern media, and he presents a few simple but profound ideas that unify the dazzling varieties of digital image making. Smith's story of the pixel's development begins with Fourier waves, proceeds through Turing machines, and ends with the first digital movies from Pixar, DreamWorks, and Blue Sky. Today, almost all the pictures we encounter are digital--mediated by the pixel and irretrievably separated from their media; museums and kindergartens are two of the last outposts of the analog. Smith explains, engagingly and accessibly, how pictures composed of invisible stuff become visible--that is, how digital pixels convert to analog display elements. Taking the special case of digital movies to represent all of Digital Light (his term for pictures constructed of pixels), and drawing on his decades of work in the field, Smith approaches his subject from multiple angles--art, technology, entertainment, business, and history. *A Biography of the Pixel* is essential reading for anyone who has watched a video on a cell phone, played a videogame, or seen a movie.