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This book is dedicated to Aristid Lindenmayer on the occasion of his 60th birthday on November 17, 1985. Contributions range from mathematics and theoretical computer science to biology. Aristid Lindenmayer introduced language-theoretic models for developmental biology in 1968. Since then the models have been cus tomarily referred to as L systems. Lindenmayer's invention turned out to be one of the most beautiful examples of interdisciplinary science: work in one area (developmental biology) induces most fruitful ideas in other areas (theory of formal languages and automata, and formal power series). As evident from the articles and references in this book, the in terest in L systems is continuously growing. For newcomers the first contact with L systems usually happens via the most basic class of L systems, namely, DOL systems. Here "0" stands for zero context between developing cells. It has been a major typographical problem that printers are unable to distinguish between 0 (zero) and 0 (oh). Thus, DOL was almost always printed with "oh" rather than "zero", and also pronounced that way. However, this misunderstanding turned out to be very fortunate. The wrong spelling "DOL" of "DOL" could be read in the suggestive way: DO L Indeed, hundreds of researchers have followed this suggestion. Some of them appear as contributors to this book. Of the many who could not contribute, we in particular regret the absence of A. Ehrenfeucht, G. Herman and H.A. Maurer whose influence in the theory of L systems has been most significant.
A stimulating introduction to radio electronics and wireless communications.
The entire text and study questions with fully-searchable content. Area of Focus: General

Orthopaedics. Designed to prepare orthopaedic residents for the Orthopaedic In Training Exam (OITE), and the American Board of Orthopaedic Surgery (ABOS) Board Certification examination, this book is presented in an easy-to-read outline format for quick review and ready access to important facts. Organized by specialty, each of the 122 chapters is loaded with color images, illustrations, tables, and charts to support the material and help you retain the information. Hundreds of multiple-choice test questions drawn from current orthopaedic literature with integrated images help you measure your learning and knowledge. Each question includes the preferred response with additional discussion and explanation of the topics. Use it to assess your knowledge and increase your retention of the core knowledge of orthopaedics.

This comprehensive book is more than a complete reference on knee fractures and associated injuries: it is also a decision-making and surgical guide that will assist trauma, knee, sports medicine, and total joint surgeons in planning and executing specific procedures for different traumatic conditions of the knee. Each chapter addresses a particular condition and its management, explaining the traumatic mechanism and preoperative workup and then describing in detail the surgical steps, from patient positioning to the postoperative regimen. Guidance is also provided on complications and their management, and to complete the coverage, results from the relevant literature are described. The authors are world-renowned experts keen to share their knowledge and expertise regarding specific traumatic conditions of the knee. Both experienced surgeons and orthopedic residents will find this book to be an invaluable tool that will improve their practice when dealing with knee fractures.

Written by the world's foremost trauma surgeons, this volume of our Orthopaedic Surgery

Essentials Series presents all the information residents need during trauma surgery rotation or service. It can easily be read cover to cover during a rotation or used for quick reference before a patient workup or operation. The user-friendly, visually stimulating format features ample illustrations, bulleted lists, boxes, and tables. Coverage begins with brief chapters on fracture epidemiology and healing and proceeds to fracture types and injuries at each anatomic site. A section describes the various surgical and nonsurgical techniques used in fracture management. Concluding chapters discuss postoperative complications.

The book introduces modern high-order methods for computational fluid dynamics. As compared to low order finite volumes predominant in today's production codes, higher order discretizations significantly reduce dispersion errors, the main source of error in long-time simulations of flow at higher Reynolds numbers. A major goal of this book is to teach the basics of the discontinuous Galerkin (DG) method in terms of its finite volume and finite element ingredients. It also discusses the computational efficiency of high-order methods versus state-of-the-art low order methods in the finite difference context, given that accuracy requirements in engineering are often not overly strict. The book mainly addresses researchers and doctoral students in engineering, applied mathematics, physics and high-performance computing with a strong interest in the interdisciplinary aspects of computational fluid dynamics. It is also well-suited for practicing computational engineers who would like to gain an overview of discontinuous Galerkin methods, modern algorithmic realizations, and high-performance implementations.

This book is a comprehensive primer to both traditional and emerging E-Commerce technologies. Students with no prior technical knowledge will be able to grasp complex

topics such as networking, Internet security, Web languages and other important subjects in a way that illustrates their use through case studies and practice by completing Web projects.

"Lilly sat with her eyes fixed on the window, watching snowflakes crowding on the alley in front of the house, and slowly, slowly everything was covered with a fluffy coat of snow. She thought about the letter that she wrote for Santa Claus, about the gifts he would place under the Christmas tree tonight. And then she realized she should ask Santa for something else." "The Tiniest Elf" is the whimsical story of a little girl, her innocent wish, and her adventure to find Santa Claus. 5-star review by Mamta Madhavan for Readers' Favorite: "It is the day before Christmas and Lilly is waiting for her mother to arrive so that she can spend Christmas together with her parents. Her mother works in another city and she was unable to make it on the first day of Christmas because it was snowing way too much. In The Tiniest Elf by Laurentiu M. Badea, Lilly decides to write another letter to Santa Claus, apart from the earlier one she wrote, because she realized she should ask Santa for something else. In the northernmost realm of Lapland, inside Santa's workshop, Santa's elves are working to finish the last touches of Santa's departure. Like every year, Santa's five trusted elf friends are going with him to share gifts to children all over the world. Lilly is wondering how she can get her letter to Santa Claus. Will Santa get Lilly's letter on time? I like the concept and the underlying message of the story which will awaken the child inside all

of us. It is such a magical and heartwarming story, and the innocent girl and her wish to be with both her parents for Christmas is tangible. It is a good book to read out to youngsters during the Christmas season as it captures the essence and spirit of the season beautifully. Many children will be able to relate to Lilly's feelings. It is a good storybook for both read aloud sessions in classrooms and also bedtime story-telling as it conveys a beautiful message to young readers."

A manual for amateur radio enthusiasts discusses the history of packet radio, hardware systems, networking, setting up an amateur packet radio station, and equipment and accessories

The mission of the National Institute of Standards and Technology (NIST) enables NIST to provide broad support for the advancement of U.S. manufacturing. Research and services supporting manufacturing are intended to be an important component in all of the NIST laboratories. Moreover, since manufacturing is a major part of the U.S. economy, the growth or loss of U.S. manufacturing jobs is a very important issue. Clearly, the successful execution of NIST's programs supporting manufacturing will have a significant impact on manufacturing jobs in the United States. With the multidisciplinary, multisector, and crosscutting nature of manufacturing, the Director of NIST requested that the National Research Council (NRC) assess the manufacturing-related programs at NIST in 2012. Accordingly, a panel of experts was convened by the National Research Council to perform the assessment. The Panel on review of the

Manufacturing-Related Programs at the national Institute of Standards and Technology visited the NIST campus in Gaithersburg, Maryland, on March 26-28, 2012. A Review of the Manufacturing-related Programs at the National Institute of Standards and Technology: Fiscal Year 2012 contains the results of the panel's assessment. The assessment considered manufacturing research at NIST broadly, with emphasis on the specific advanced manufacturing areas: Nanomanufacturing (including Flexible Electronics); Smart Manufacturing (including Robotics); and Next-Generation Materials Measurements, Modeling, and Simulation. The area of Biomanufacturing also reviewed as a subset of the Nanomanufacturing review. As is to be expected for programs covering such wide scope, the boundaries among these broad areas are not rigid and there is some overlap among them. On the basis of its assessment, the panel formed the observations and recommendations which are detailed in this report.

This most complete monograph so far published on the subject analyses all aspects related to the etiopathogenesis, pathomorphology, diagnosis and treatment of lumbar disc herniation. Five chapters are dedicated to biological and pathomorphologic aspects, while five deal with the clinical presentation and diagnostic tests in both extreme depth and breadth. Much space is devoted to conservative, percutaneous and surgical treatments, as well as the causes and management of failed back syndrome. Primary knee arthroplasty (PKA) has a long history and modern mobile bearing knee implants are successfully implanted worldwide since 1977. Primary Knee Arthroplasty

focuses on basic science, personal surgical experiences, clinical, functional and radiographic outcomes of PKA, with special focus on challenging knees such as severe varus and valgus deformities with associated bone defects, fixed flexion deformities, soft tissue contractures, and arthrodesed knees. Patella treatment with or without resurfacing is addressed in great detail. Early criterion-based rehabilitation and the patient's return to participating in sports are discussed as is the management of prosthetic or surgery related complications. Lavishly illustrated to complement the text, Primary Knee Arthroplasty is a 'must-have' for all practicing knee replacement surgeons, orthopedic surgeons in training, orthopedic nurses, and physiotherapists with a special interest in knee arthroplasty. Tips and tricks provided by experienced knee surgeons are indispensable for daily clinical practice.

A coverage of the Transputer Development System (TDS), an integrated programming environment which facilitates the programmming of transputer networks in OCCAM. The book explains transputer architecture and the OCCAM programming model and incorporates a TDS user guide and reference manual.

A Review of the Manufacturing-Related Programs at the National Institute of Standards and TechnologyFiscal Year 2012National Academies Press

The BCS Glossary is the most authoritative and comprehensive work of its kind. This unrivalled study aid and reference tool has newly updated entries and is

divided into themed sections making it more than just a list of definitions. Written in an easily accessible style, it is specifically designed to support those taking computer courses or courses where computers are used, including GCSE, A-Level, ECDL and 14-19 Diplomas in Functional Skills in schools and further education colleges.

"An achaeological mystery, the story of young American Bruce Brandon, eager to ascertain more about the graves of Egyptian gods, is set against a clearly focused background of the Land of the Pyramids. Bruce is determined to find mummified crocodiles, which he believes were spirited away by reactionary priests during the reign of the ruler Akhenaten, who tried to introduce monotheism into Egypt." --Preface.

CAFO : The Tragedy of Industrial Animal Factories provides an unprecedented view of concentrated animal feeding operations, where increasing amounts of the world's meat, milk, eggs, and seafood are produced. As the photos and essays in this powerful book demonstrate, the rise of the CAFO industry around the world has become one of the most pressing issues of our time. Industrial livestock production is now a leading source of climate-changing emissions, a source of both freshwater and ocean pollution, and a significant contributor to diet-related diseases such as obesity and the spread of food-borne illnesses. The intensive

concentration of animals in such crammed and filthy conditions dependent on antibiotic medicines and steady streams of subsidized industrial feeds poses serious moral and ethical concerns for all of us.

For every American fighter pilot involved in the Vietnam War, the ultimate goal was to 'kill a MiG'. In eight years of conflict 43 Vietnamese Peoples Air Force aircraft were claimed by US Navy and US Marine Corps Phantom II crews, and one single ace crew produced. Navy Phantom IIs scored the first kills of the Vietnam War, in April 1965, as well as scoring the last in January 1973. This volume charts the successes of the navy fighter crews as they encountered 'MiGs, Missiles and AAA' over the jungles of North Vietnam.

Up until two decades ago, clinical interest in the etiopathogenetic interpretation of lumbo-radicular syndromes was prevalently concentrated on the pathology of the inter vertebral disc. This vision gradually changed and grew as a result of the affirmation of the concept of pathological narrowing of the osteoligamentous vertebral canal as a cause of compression of the lumbar nervous structures. Finally, in the last ten years, lumbar stenosis has become more and more a subject of current interest not only as a result of problems related to nosography, diagnosis, and therapy, but also as a result of the increasing frequency with which vertebral canal or nerve root canal stenosis syndromes are recognized and treated. At the same time there was a tendency to include in stenotic pathology other pathological conditions responsible for lumbo-radicular syndromes. This led to dilation of the concept of stenosis, which perhaps

no longer responded to reality, and which was not useful from a practical point of view. The need to define stenotic pathology and to correctly locate it within the vast field of lumbar pathology inspired the writing of this volume. This monograph gathers many diagnostic and therapeutic concepts matured at our In stitution over the years. Some of these concepts have already been defined in scientific meet ings or in publications.

Correspondence between Wingate and his wife Mary E. Wingate and children during his tenure in San Francisco during the Gold Rush.

Ilse Grubrich-Simitis, well-known as a Freud scholar and editor of Freud's works, has long advocated a return to his original texts in order to comprehend fully the power and innovative force of his theories. In Early Freud and Late Freud she examines the earliest psychoanalytic book, Studies on Hysteria, which Freud wrote together with Breuer, and Moses and Monotheism, Freud's last book. The essay on Studies on Hysteria reveals to the reader why that book is indeed the 'primal book' of psychoanalysis. Not only does it offer a moving and dramatic account of the birth of the psychoanalytic method, but by introducing the key concept of trauma it establishes a foundation on which much of modern psychoanalysis has been built. Freud was to return to his original theory of trauma in his last book, Moses and Monotheism, where he developed it further in the light of his intervening researches. On the basis of her study of the Moses manuscripts and by applying the psychoanalytic method, Ilse Grubrich-Simitis shows how contemporary traumatic events in Nazi Germany may have influenced this return to the beginning and the intensification of Freud's self-analysis. This in turn was to lead to new insights into archaic forms of defence, pointing the way forward for modern psychoanalysis. Elegantly constructed and persuasively argued, Early Freud and Late Freud re-

establishes the importance of two major Freudian texts, offering a new understanding of their significance.

"Provides detailed information on how to operate, maintain, and repair string trimmers and blowers; ... the following manufacturers of electric and gasoline powered string trimmers and blowers are covered: Alpina, Black & Decker, Bunton, John Deere, Echo, Elliot, Green Machine, Hoffco, Homelite, Husqvarna, IDC, Jonsered, Kaaz, Lawn Boy, Maruyama, McCulloch, Olympyk, Pioneer-Partner, Poulan, Redmax, Robin, Roper-Rally, Ryan, Ryobi, Sachs-Dolmar, Sears, Shindaiwa, SMC, Snapper, Stihl, Tanaka (TAS), Toro, TML (Trail), Wards, Weed Eater, Western Auto, Yard Pro, Yazoo; specific repair instructions for string trimmer and blower gasoline engines are covered for the following manufacturers: John Deere, Echo, Efco, Fuji, Homelite, Husqvarna, IDC, Kawasaki, Kioritz, Komatsu, McCulloch, Mitsubishi, Piston Powered Products, Poulan, Sachs-Dolmar, Shindaiwa, Stihl, Tanaka (TAS), Tecumseh, TML (Trail)"--Page 4 of cover.

This edition covers the latest changes in UK and international practice, and the design methods described refer to British Standards 8007, 8110 and 8102 as well as US standards (including ACI codes). Reference is also made to the recent Australian standard AS 3735-1991.

Written by leading surgeons with expertise in performing osteotomies around the knee, this book is an essential reference for the current techniques in joint-preserving knee surgery. The book opens with a thorough discussion of physiology, pathophysiology, clinical evaluation, and imaging. It then describes the indications and basic principles of treatment and provides a detailed planning algorithm for high-tibial osteotomy. Separate chapters cover various clinical

applications, addressing important topics ranging from the effects of osteotomies on cartilage pressure in the knee to management for failed osteotomies around knee. The book also discusses the latest technological developments in the field, such as computer-assisted navigation and the development of plate fixators.Features: Clinical insights and practical tips from experts in the field Detailed presentation of surgical techniques Numerous high-quality images and illustrations demonstrating key concepts Discussion of how to manage complications after high-tibial open-wedge osteotomy

Since 1989, there have been over 200 post-conviction DNA exonerations in the United States. On the surface, the release of innocent people from prison could be seen as a victory for the criminal justice system: the wrong person went to jail, but the mistake was fixed and the accused set free. A closer look at miscarriages of justice, however, reveals that such errors are not aberrations but deeply revealing, common features of our legal system. The ten original essays in When Law Fails view wrongful convictions not as random mistakes but as organic outcomes of a misshaped larger system that is rife with faulty eyewitness identifications, false confessions, biased juries, and racial discrimination. Distinguished legal thinkers Charles J. Ogletree, Jr., and Austin Sarat have assembled a stellar group of contributors who try to make sense of justice gone wrong and to answer urgent questions. Are miscarriages of justice systemic or symptomatic, or are they mostly idiosyncratic? What are the broader implications of justice gone awry for the ways we think about law? Are there ways of reconceptualizing legal missteps that are particularly useful or illuminating? These instructive essays both address the questions and point the way toward further discussion. When Law Fails reveals the dramatic consequences as well as the daily realities of breakdowns in the law's ability to

deliver justice swiftly and fairly, and calls on us to look beyond headline-grabbing exonerations to see how failure is embedded in the legal system itself. Once we are able to recognize miscarriages of justice we will be able to begin to fix our broken legal system. Contributors: Douglas A. Berman, Markus D. Dubber, Mary L. Dudziak, Patricia Ewick, Daniel Givelber, Linda Ross Meyer, Charles J. Ogletree, Jr., Austin Sarat, Jonathan Simon, and Robert Weisberg.

After a brief introduction to the topic of business process modeling, the book offers a quick-start into model-based business process engineering. After that, the foundations of the modeling languages used are conveyed. Meaningful examples are in the foreground - each of the underlying formalisms is treated only as far as needed. Next the Horus Method is described in detail. The book defines a sequence of activities which finally leads to the creation of a complete business process model. The Horus Method, incidentally, is not bound to the use of the Horus software tools. It can be used with other tools or, if necessary, be used even without tool support. Important application fields of business process engineering are described, where the spectrum ranges from business process reengineering to the development and implementation of information systems. The book concludes with an outlook on the future of business process engineering and highlights current research activities in the area.

A comprehensive reference for the day-to-day management of hallux valgus deformitities. Podiatrists should find this a valuable book since the hallux valgus is the area most operated on by those specialists. The comprehensive coverage should render it useful for orthopaedic surgeons.