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Marine Fauna of North-West Europe Textbook of Adult Emergency Medicine E-Book Osteoarthritis of the knee Geriatric Rehabilitation Manual Operative Techniques in Orthopaedic Surgery Pediatric Surgery A Neolithic and Bronze Age Landscape in Northamptonshire Complications of Limb Salvage Revision Total Hip Arthroplasty Hybrid Artificial Intelligent Systems Revision Total Knee Arthroplasty Ligament Balancing in Total Knee Arthroplasty Imaging of the Knee Haschek and Rousseaux's Handbook of Toxicologic Pathology Comprehensive Biomaterials MIS Techniques in Orthopedics Operative Techniques in Orthopaedic Trauma Surgery Operative

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This book celebrates the contributions of Dr. Frederick S. Szalay to the field of Mammalian Evolutionary Morphology. Professor Szalay is a strong advocate for biologically and evolutionarily meaningful character analysis. He

has published about 200 articles, six monographs, and six books on this subject. This book features subjects such as the evolution and adaptation of mammals and provides up-to-date articles on the evolutionary morphology of a wide range of mammalian groups. *Fractures of the Proximal Femur: Improving Outcomes*, by Dr. James P. Waddell, helps you maximize clinical outcomes when addressing the challenges, complications, and treatment of patients with hip fractures. Match pre-operative assessment, surgical techniques, post-operative management, and more to the specific lifestyle factors of each patient in order to achieve optimal results. Apply state-of-the-art techniques and protocols with the visual help of operative videos as well as more than 500 surgical line drawings and photographs in print and online at [www.expertconsult.com](http://www.expertconsult.com). See how to perform each technique step by step with operative videos and online access at [www.expertconsult.com](http://www.expertconsult.com). Review surgical

techniques such as pinning, plating/intramedullary devices, and total hip replacement implants, and get a greater understanding of deep vein thrombosis and pulmonary embolism prevention. Brush up on related topics including epidemiology, osteoporosis, co-morbidities, evidence-based post-op, and rehabilitation protocols. Get the advice of expert contributors worldwide who detail best practices in prophylaxis, surgical technique, and rehabilitation. This book has been written specifically for candidates sitting the oral part of the FRCS (Tr & Orth) examination. It presents a selection of questions arising from common clinical scenarios along with detailed model answers. The emphasis is on current concepts, evidence-based medicine and major exam topics. Edited by the team behind the successful *Candidate's Guide to the FRCS (Tr & Orth) Examination*, the book is structured according to the four major sections of the examination; adult elective orthopaedics,

trauma, children's/hands and upper limb and applied basic science. An introductory section gives general exam guidance and end section covers common diagrams that you may be asked to draw out. Each chapter is written by a recent (successful) examination candidate and the style of each reflects the author's experience and their opinions on the best tactics for first-time success. If you are facing the FRCS (Tr & Orth) you need this book. This comprehensive reference on total knee arthroplasty describes all surgical techniques and prosthetic designs for primary and revision arthroplasty, discusses every aspect of patient selection, preoperative planning, and intraoperative and postoperative care. Now fully revised and updated, Textbook of Adult Emergency Medicine provides clear and consistent coverage of this rapidly evolving specialty. Building on the success of previous editions, it covers all the major topics that present to the trainee doctor in the emergency department. It will also prove invaluable to the

range of other professionals working in this setting - including nurse specialists and paramedics - who require concise, highly practical guidance, incorporating latest best practices and current guidelines. For the first time, this edition now comes with access to additional ancillary material, including practical procedure videos and self-assessment material. Updates throughout reflect latest practice developments, curricula requirements and essential guidelines Key point boxes highlight topic 'essentials' as well as controversial areas of treatment An expanded list of leading international contributors ensures comprehensive coverage and maximizes worldwide relevance New and enhanced coverage of important and topical areas - including latest imaging in emergency medicine; organ donation; massive transfusion protocols; medico legal issues; patient safety and quality measures All new accompanying electronic ancillary material, including procedure videos

and self-assessment materials to check your understanding and aid exam preparation  
Expansion of administration section - especially patient safety  
New and enhanced coverage of important and topical areas - including latest imaging in emergency medicine; organ donation; massive transfusion protocols; medico legal issues; patient safety and quality measures  
All new accompanying electronic ancillary materials - including practical procedures videos and self-assessment materials  
Traumatic Disorders of the Knee is a must for orthopedic surgeons with an interest in knee injuries, sports medicine, and arthroplasty. It covers: knee anatomy; acute management of trauma; late reconstructive procedures; fractures and ligament injuries; knee dislocations; allografts in knee trauma; use of external fixators; articular cartilage injury and repair; osteochondral and chondral fractures; extensile exposure of the knee; distal femoral fractures; tibial plateau fractures; patellar fractures; extensor mechanism disruption;

anterior and posterior cruciate ligament injuries; collateral ligament injuries; meniscal injury and repair; malunions and nonunions of the knee; total knee replacement for posttraumatic arthritis; patellar fractures and extensor mechanism disruption in total knee replacement. Contributors include prominent surgeons from throughout North America. Features over 300 clear line drawings created especially for this book, plus 400 clear, informative radiographs and operative photographs. Operative Techniques in Orthopaedic Surgery is the first major new comprehensive text and reference on surgical techniques in orthopaedics. Written by over 800 experts from leading institutions around the world, this superbly illustrated four-volume reference focuses on mastery of operative techniques and also provides a thorough understanding of how to select the best procedure, how to avoid complications, and what outcomes to expect. The user-friendly format is ideal for quick preoperative review of

the steps of a procedure. Each procedure is broken down step by step, with full-color intraoperative photographs and drawings that demonstrate how to perform each technique. Extensive use of bulleted points and tables allows quick and easy reference. Each clinical problem is discussed in the same format: definition, anatomy, physical exams, pathogenesis, natural history, physical findings, imaging and diagnostic studies, differential diagnosis, non-operative management, surgical management, pearls and pitfalls, postoperative care, outcomes, and complications. The text is broken into the following sections: Adult Reconstruction; Foot and Ankle; Hand, Wrist, and Forearm; Oncology; Pediatrics; Pelvis and Lower Extremity Trauma; Shoulder and Elbow; Sports Medicine; and Spine. To ensure that the material fully meets residents' needs, the text was reviewed by a Residency Advisory Board. The 4 volume set comes with a companion website featuring the fully searchable contents

and an image bank. An up-to-date and comprehensive review of the discipline of imaging of the knee. The first part discusses the various techniques employed when imaging the knee. Individual chapters are devoted to radiography, arthrography, computed tomography and CT arthrography, magnetic resonance imaging and MR arthrography, and ultrasonography. The second part then documents the application of these techniques to the diverse clinical problems and diseases encountered in the knee. Among the many topics addressed are: congenital and developmental abnormalities, trauma, meniscal pathology, and others. Each chapter is written by an acknowledged expert in the field. This atlas presents a collection of richly illustrated teaching cases. It covers the fundamentals of orthopedic oncology complemented with relevant aspects that are demonstrated using individual cases. In a specialty that deals with a relatively smaller number of cases compared to

tumors of other systems, this atlas prepares readers for clinical practice by combining a problem-based learning (PBL) approach, which lies on the continuum between structured and guided learning, with theory and practical insights. The book is divided into sections, arranged according to anatomical regions and the reconstruction type. Each section focuses on a specific anatomical region, and each case presentation includes the basic clinical history, basic principles, preoperative, perioperative and radiographic images, a pitfall list, treatment strategy, technical pearls, outcomes and complications. For each region the authors discuss both the biological and non-biological reconstruction techniques. The book is designed to actively involve the reader, making it an invaluable tool for all orthopedic surgeons confronted with oncologic surgery. The book is intended for trainees in orthopedics, orthopedic oncology fellows as well as practicing consultants. This book constitutes the refereed

proceedings of the 4th International Symposium on Biomedical Simulation, ISBMS 2008, held in London, UK, in July 2008. The 19 revised full papers and 7 poster papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in four different sections corresponding to key areas and techniques of this constantly expanding field: finite element modeling, mass spring and statistical shape modeling, motion and fluid modeling and implementation issues. An additional section covers the posters presented at the meeting. Following the format change to include single best answer questions (SBAs), this book equips candidates with a full range of testing examples to develop familiarity with the format and prepare for success in their FRCS (Tr&Orth) examination. Containing over 1,000 level 2 SBA questions, detailed explanations ensure candidates understand the reasoning and evidence-based decision-making behind each answer. Covering the breadth of the orthopaedic



syllabus, including more difficult subject areas such as biomechanics, prosthetics/orthotics, anatomy and statistics, this is a crucial resource for all candidates. Encouraging the integration of clinical information with problem solving, this question format helps candidates learn and retain the answers more efficiently than with simple factual recall. Written by highly experienced clinicians and examiners, these example questions are essential for preparing for the real examination. Found a few kilometres from Stonehenge, the graves of the Amesbury Archer and the Boscombe Bowmen date to the 24th century BC and are two of the earliest Bell Beaker graves in Britain. The Boscombe Bowmen is a collective burial and the Amesbury Archer is a single burial but isotope analyses suggest that both were the graves of incomers to Wessex. The objects placed in both graves have strong continental connections and the metalworking tool found in the grave of the Amesbury Archer may explain why his mourners

afforded him one of the most well-furnished burials yet found in Europe. This excavation report contains a series of wide-ranging studies and scientific analyses by an array of experts and a discussion of the graves within their British and continental European contexts. The popularity of NXT and the success of The Da Vinci Code book and movie are combined in this fascinating book. Projects for building and programming five of Leonardo's most famous inventions are covered in detail: the Tank, the Helicopter, the Catapult, the Flying Machine, and the Revolving Bridge. This book is written for serious NXT programmers and covers the most popular programming environments available today. The book is abundantly illustrated and includes sample code and countless best practices strategies. Advanced NXT: The Da Vinci Inventions Book complements Apress's successful line of Mindstorms books by providing advanced programming techniques in a rich historical context. This book constitutes

the refereed proceedings of the First Joint Conference; Computer Vision, Virtual Reality and Robotics in Medicine, CVRMed, and Medical Robotics and Computer-Assisted Surgery, MRCAS, held in Grenoble, France, in March 1997. The volume presents 76 regular revised papers and 16 clinical papers selected from a total of 161 submitted full papers. The volume offers highly innovative and promising research results in computer-assisted medicine and medical informatics. Among the areas covered are medical imaging, virtual reality, medical robotics, and computer-integrated therapy and surgery. The book is of relevance to clinicians, medical engineers, and computer scientists. This volume constitutes the refereed proceedings of the 14th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2019, held in León, Spain, in September 2019. The 64 full papers published in this volume were carefully reviewed and selected from 134 submissions. They are organized in the following topical

sections: data mining, knowledge discovery and big data; bio-inspired models and evolutionary computation; learning algorithms; visual analysis and advanced data processing techniques; data mining applications; and hybrid intelligent applications. A comprehensive treatment of primate paleontology. Profusely illustrated and up to date, it captures the complete history of the discovery and interpretation of primate fossils. The chapters range from primate origins to the advent of anatomically modern humans. Each emphasizes three key components of the record of primate evolution: history of discovery, taxonomy of the fossils, and evolution of the adaptive radiations they represent. The Primate Fossil Record summarizes objectively the many intellectual debates surrounding the fossil record and provides a foundation of reference information on the last two decades of astounding discoveries and worldwide field research for physical anthropologists, paleontologists and evolutionary biologists. An

in-depth understanding of a comprehensive approach to the management of radius fractures and their complications. The authors -- world renowned experts in the field -- present practical, clinical information from their extensive experience in the treatment of these fractures. Topics include the authors' classification as well as decision-making and tactics in the conservative and operative management of all types of radius fractures. Topics covered include: bending fractures of the metaphysis, shearing and compression fractures of the joint surface, avulsion fractures, radio-carpal fracture and dislocation, combined fractures, high velocity injury and malunions. In addition, chapters deal with surgical techniques and approach as well as with complications. With over 500 illustrations, this is the definitive volume on these challenging fractures, their complete treatment, and the management of complications. Now in its updated Seventh Edition, Lovell and Winter's Pediatric

Orthopaedics remains a must-have for physicians and residents treating infants, children, and adolescents with orthopaedic problems. This classic, comprehensive reference covers the basic science, clinical manifestations, and management of orthopaedic problems in children. Now in full color, the foremost orthopaedists examine normal musculoskeletal development and the causes, diagnosis, and treatment of the entire range of abnormalities, with emphasis on evidence-based decision making in treatment selection. The clinical chapters include pearls and pitfalls and a description of the author's preferred approach. The book will now cover surgical techniques of management with step-by-step illustrations from the Atlas of Pediatric Orthopaedic Surgery. The Raunds Area Project investigated more than 20 Neolithic and Bronze Age monuments in the Nene Valley. From c 5000 BC to the early 1st millennium cal BC a succession of ritual mounds and burial mounds were built as settlement

along the valley sides increased and woodland was cleared. Starting as a regular stopping-place for flint knapping and domestic tasks, first the Long Mound, and then Long Barrow, the north part of the Turf Mound and the Avenue were built in the 5th millennium BC. With the addition of the Long Enclosure, the Causewayed Ring Ditch, and the Southern Enclosure, there was a chain of five or six diverse monuments stretched along the river bank by c 3000 cal BC. Later, a timber platform, the Riverside Structure, was built and the focus of ceremonial activity shifted to the Cotton 'Henge', two concentric ditches on the occupied valley side. From c 2200 cal BC monument building accelerated and included the Segmented Ditch Circle and at least 20 round barrows, almost all containing burials, at first inhumations, then cremations down to c 1000 cal BC, by which time two overlapping systems of paddocks and droveways had been laid out. Finally, the terrace began to be settled when these had gone out of use, in the early 1st

millennium cal BC. This second volume of the Raunds Area Project, published as a CD, comprises the detailed reports on the environmental archaeology, artefact studies, geophysics and chronology. Derived from Sam W. Wiesel's four-volume *Operative Techniques in Orthopaedic Surgery*, this single-volume resource contains the user-friendly, step-by-step information you need to confidently perform the full range of operative techniques in trauma surgery. In one convenient place, you'll find the entire Trauma section, as well as relevant chapters from the Shoulder and Elbow; Hand, Wrist, and Forearm; and Foot and Ankle sections of *Operative Techniques in Orthopaedic Surgery*. Superb full-color illustrations and step-by-step explanations help you master surgical techniques, select the best procedure, avoid complications, and anticipate outcomes. Written by global experts from leading institutions, *Operative Techniques in Orthopaedic Trauma Surgery*, 2nd Edition, provides authoritative,

easy-to-follow guidance to both the novice trainee or experienced surgeon. Utilizing detailed case presentations from experts in the field, this book presents common clinical scenarios involving patients who have sustained displaced femoral neck fractures, discussing the injury mechanism, early treatment, potential treatment options, risks and complications involved. The style of presentation, the ease of readability, the use of appropriate and relevant cases to highlight the learning points, and the discussion of the decision-making process are all unique features of the book's approach. Using this tailored process, the each topic is reviewed and the rationale for what appears to be the optimal treatment - hemiarthroplasty or total hip replacement, for example - is provided to the reader, emphasizing that the ultimate decision requires the combination of science and judgment, both of which are continually evolving. Additional chapters present ongoing controversies in the management of these

challenging fractures, as well as complications such as aseptic necrosis, symptomatic hardware and nonunions. Portable and concise, orthopedic and trauma surgeons, residents and fellows alike will find Displaced Femoral Neck Fractures a practical and user-friendly resource. The varus knee has a group of bone and ligament abnormalities that must be addressed to correct the deformity. The mechanical axis of the femur is tilted medially relative to the long axis of the tibia. The distal femoral surface usually remains in valgus alignment to the long axis of the femur. Most of the varus deformity is caused by deficiency in the medial tibial plateau. The deep and superficial medial collateral ligaments are contracted and deformed by osteophytes. Advances in Small Animal Total Joint Replacement provides an up-to-date, comprehensive examination of joint replacement in veterinary surgery. Part of the Advances in Veterinary Surgery series copublished with the ACVS Foundation, the book presents an

evidence-based, multi-system examination of the current state of hip, knee, and elbow replacement in dogs and cats, including information on biomechanics and biomaterials not found in other sources. Written by an international group of experts, the book offers guidance on the history, indications, contraindications, clinical procedures, and a review of the current literature for these surgical techniques. Focusing on replacement of the hip, knee, and elbow, the book also covers disc, shoulder, carpus, and tarsus replacement, as well as information on the development of custom prostheses. Each section incorporates information on potential complications and outcomes assessment. *Advances in Small Animal Total Joint Replacement* is an unparalleled repository of information for veterinary surgeons, residents, and practitioners with an interest in these procedures. Consists of the transactions of the 22nd- annual meeting of the society. These concise revision notes are aimed

at candidates preparing for UK and international FRCS (Trauma & Orthopaedics) exit examination as well as the European Board (EBOT) and SICOT diplomas. The book has been written in an easy to read style, with a focus on being an exam candidate's companion for quick revision on the go. Candidates are usually caught between a busy job and the demands of these challenging exams. This book covers the depth and breadth of Trauma & Orthopaedics knowledge to help candidates sail through the Fellowship exit examinations. We have aimed to provide a high quality one stop concise knowledge bank to cover the whole syllabus of Trauma & Orthopaedics in a well organised bullet point style. This will provide a useful resource for both part 1 (MCQs, EMQs) as well as part 2 (Viva and Clinical) components of the exit examinations. It is an ideal companion to complement your preparation for the examination with the most useful information presented in the most succinct manner. The

authors are senior members of the FRCS Mentor Group who have between them ample up to date experience and knowledge with the Fellowship examination. They have attended most postgraduate orthopaedic courses in the UK and internationally, and have reviewed all relevant exam book. They have excellent track records of helping many candidates to pass their exams. This book is complemented by hundreds of diagrams, illustrations, radiographs and clinical images. There are QR codes interspersed within the chapters which when scanned using your smartphone camera, link up to either the corresponding open-access seminal paper or to a YouTube video pertaining to the topic discussed. We look forward to the readers' feedback that will help us immensely to improve the contents in the next edition for the benefit of future orthopaedic aspirants. Head over to Amazon, Google Books and to BookAuthority.org to leave a review, or write to the email below. We also invite anyone who is interested to become an

author of the next edition, or to discuss future collaboration or sponsorship opportunities to contact the editor on: [thefrcsmentor@gmail.com](mailto:thefrcsmentor@gmail.com)

The heavily revised second edition of this essential textbook describes how to utilize a range of surgical techniques applicable to pediatrics. Chapters contain flowcharts to facilitate rapid assessment and decision-making. In addition, learning objectives and review questions are contained within each chapter to reinforce the key points covered. Topics covered include routinely encountered adolescent problems and neoplasms in children. Pediatric Surgery: Diagnosis and Treatment concisely describes how to apply a range of diagnostic and treatment techniques that are applicable to the pediatric patient in a variety of surgical scenarios for a range of diseases. Furthermore, it is an ideal resource for trainees and active practitioners taking board examinations. Comprehensive Biomaterials brings together the myriad facets of biomaterials into one, major

series of six edited volumes that would cover the field of biomaterials in a major, extensive fashion: Volume 1: Metallic, Ceramic and Polymeric Biomaterials Volume 2: Biologically Inspired and Biomolecular Materials Volume 3: Methods of Analysis Volume 4: Biocompatibility, Surface Engineering, and Delivery Of Drugs, Genes and Other Molecules Volume 5: Tissue and Organ Engineering Volume 6: Biomaterials and Clinical Use Experts from around the world in hundreds of related biomaterials areas have contributed to this publication, resulting in a continuum of rich information appropriate for many audiences. The work addresses the current status of nearly all biomaterials in the field, their strengths and weaknesses, their future prospects, appropriate analytical methods and testing, device applications and performance, emerging candidate materials as competitors and disruptive technologies, and strategic insights for those entering and operational in diverse biomaterials applications, research and

development, regulatory management, and commercial aspects. From the outset, the goal was to review materials in the context of medical devices and tissue properties, biocompatibility and surface analysis, tissue engineering and controlled release. It was also the intent both, to focus on material properties from the perspectives of therapeutic and diagnostic use, and to address questions relevant to state-of-the-art research endeavors. Reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses, performance as well as future prospects Presents appropriate analytical methods and testing procedures in addition to potential device applications Provides strategic insights for those working on diverse application areas such as R&D, regulatory management, and commercial development This manual gives step-by-step guidance on the evaluation and treatment of geriatric diseases and disorders. It covers incidence of disorders, diagnostic tests,



associated diagnoses, clinical implications for mobility, and rehabilitation techniques. It offers a broad overview of the effects of aging on all body systems. Special geriatric considerations for laboratory assessment, thermoregulations, and pharmacology are also discussed. This manual is a resource for all training clinicians in geriatric care and is a quick-reference guide for students and practitioners in this field. Netter's Concise Orthopaedic Anatomy is a best-selling, portable, full-color resource excellent to have on hand during your orthopaedic rotation, residency, or as a quick look-up in practice. Jon C. Thompson presents the latest data in thoroughly updated diagnostic and treatment algorithms for all conditions while preserving the popular at-a-glance table format from the previous edition. You'll get even more art from the Netter Collection as well as new radiologic images that visually demonstrate the key clinical correlations and applications of anatomical imaging. For a fast, memorable review of

orthopaedic anatomy, this is a must-have. Maintains the popular at-a-glance table format that makes finding essential information quick and convenient. Contains useful clinical information on disorders, trauma, history, physical exam, radiology, surgical approaches, and minor procedures in every chapter. Lists key information on bones, joints, muscles, and nerves in tables correlate to each Netter image. Highlights key material in different colors—pearls in green and warnings in red—for easy reference. Features both plain film and advanced radiographic (CT and MRI) images, along with cross-sectional anatomic plates for an even more thorough visual representation of the material. This "updated" second edition includes test-yourself images and notes. All other content is the same as the 2010 2nd edition. Edited by two leading authorities in the field, this volume is a technique-oriented "how-to" guide to an increasingly performed procedure, corrective surgery for the failed total knee arthroplasty.

With more than 350 illustrations - 60 in full color. This book offers a comprehensive review on the latest development in the management and the treatment of acute and life-threatening conditions. Written by leading experts in the field, this book will help the clinician to understand the clinical problems and to select the methodological and technical options that will ensure prompt and effective response and correct interpretation of the clinical findings. This book is richly illustrated and will serve as a unique source of information for radiologists and other specialists including neuroradiologists, surgeons, cardiologists, angiologists and gastroenterologists. Derived from Sam W. Wiesel's four-volume *Operative Techniques in Orthopaedic Surgery*, this single-volume resource contains the user-friendly, step-by-step information you need to confidently perform the full range of operative techniques in pediatric orthopaedic surgery. In one convenient place, you'll find the entire Pediatrics section, as well

as relevant chapters from the Adult Reconstruction; Hand, Wrist, and Forearm; Pelvis and Lower Extremity Trauma; Shoulder and Elbow; Spine; and Sports Medicine sections of *Operative Techniques in Orthopaedic Surgery*. Superb full-color illustrations and step-by-step explanations help you master surgical techniques, select the best procedure, avoid complications, and anticipate outcomes. Written by global experts from leading institutions, *Operative Techniques in Pediatric Orthopaedic Surgery, 2nd Edition*, provides authoritative, easy-to-follow guidance to both the novice trainee or experienced surgeon. This authoritative guide, now thoroughly updated in a new edition, enables accurate identification of the common components of the inshore benthic invertebrates of the British Isles and adjacent European coasts, as well as a substantial proportion of fish species. Haschek and Rousseaux's *Handbook of Toxicologic Pathology* is a key reference on the integration of structure

and functional changes in tissues associated with the response to pharmaceuticals, chemicals and biologics. The 3e has been expanded by a full volume, and covers aspects of safety assessment not discussed in the 2e. Completely revised with many new chapters, it remains the most authoritative reference on toxicologic pathology for scientists and researchers studying and making decisions on drugs, biologics, medical devices and other chemicals, including agrochemicals and environmental contaminants. New topics include safety assessment, the drug life cycle, risk assessment, communication and management, carcinogenicity assessment, pharmacology and pharmacokinetics, biomarkers in toxicologic pathology, quality assurance, peer review, agrochemicals, nanotechnology, food and toxicologic pathology, the environment and toxicologic pathology and more. Provides new chapters and in-depth discussion of timely topics in the area of toxicologic pathology and

broadens the scope of the audience to include toxicologists and pathologists working in a variety of settings Offers high-quality and trusted content in a multi-contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations The use of novel materials and new structural concepts nowadays is not restricted to highly technical areas like aerospace, aeronautical applications or the automotive industry, but affects all engineering fields including those such as civil engineering and architecture. Addressing issues involving advanced types of structures, particularly those based on new concepts or new materials and their system design, contributions highlight the latest developments in design, optimisation, manufacturing and experimentation. Also included are contributions on new software, numerical methods and

different optimisation techniques. Optimisation problems of interest involve those related to size, shape and topology of structures and materials. Most high performance structures require the development of a generation of new materials, which can more easily resist a range of external stimuli or react in a non-conventional manner. Particular emphasis is placed on intelligent structures and materials as well as the application of computational methods for their modelling, control and management. Optimisation techniques have much to offer to those involved in the design of new industrial products. The formulation of optimum design has evolved from the time it was purely an academic topic, able now to satisfy the requirements of real life prototypes. The development of new algorithms and the appearance of powerful commercial computer codes, with easy to use graphical interfaces, have created a fertile field for the incorporation of optimisation in the design process in all

engineering disciplines. This proceedings volume is the first from a new edition of the High Performance Design of Structures and Materials and the Optimum Design of Structures conferences, which follows the success of a number of meetings that originated in 1989. Topics covered include: Composite materials & structures; Material characterisation; Experiments and numerical analysis; Steel structures; High performance concretes; Natural fibre composites; Transformable structures; Lightweight structures; Timber structures; Environmentally friendly and sustainable structures; Emerging structural applications; Optimisation in civil engineering; Evolutionary methods in optimisation; Shape and topology optimisation; Aerospace structures; Structural optimisation; Biomechanics application; Material optimisation; Life cost optimisation; Intelligence structures and smart materials. Sole reference in the field of orthopedic surgery This open access book describes and illustrates the

surgical techniques, implants, and technologies used for the purpose of personalized implantation of hip and knee components. This new and flourishing treatment philosophy offers important benefits over conventional systematic techniques, including component positioning appropriate to individual anatomy, improved surgical reproducibility and prosthetic performance, and a reduction in complications. The techniques described in the book aim to reproduce patients' native anatomy and physiological joint laxity, thereby improving the prosthetic hip/knee kinematics and functional outcomes in the quest of the forgotten joint. They include kinematically aligned total knee/total hip arthroplasty, partial knee replacement, and hip resurfacing. The relevance of available and emerging technological tools for these personalized approaches is also explained, with coverage of, for example, robotics, computer-assisted surgery, and augmented reality. Contributions from surgeons who are

considered world leaders in diverse fields of this novel surgical philosophy make this open access book will invaluable to a wide readership, from trainees at all levels to consultants practicing lower limb surgery

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