

Gait Analysis Perry

The extensive and ground-breaking work of Dr. Jacquelin Perry is encompassed in the world-renowned text, *Gait Analysis: Normal and Pathological Function*. In the Second edition of this medical, healthcare, and rehabilitation professions key text for over 20 years, Perry is joined by Dr. Judith Burnfield to present today's latest research findings on human gait.

The third edition incorporates the changes and advances in the filed of orthoses. This text will once again help the health care professional select the best orthosis according to weight bearing, activity level, material selection, expense, and unique considerations. The contributors include both orthopaedists and orthotist. Whittle's *Gait Analysis* – formerly known as *Gait Analysis: an introduction* – is now in its fifth edition with a new team of authors led by David Levine and Jim Richards. Working closely with Michael Whittle, the team maintains a clear and accessible approach to basic gait analysis. It will assist both students and clinicians in the diagnosis of and treatment plans for patients suffering from medical conditions that affect the way they walk. Highly readable, the book builds upon the basics of anatomy, physiology and biomechanics Describes both normal and pathological gait Covers the range of methods available to perform

gait analysis, from the very simple to the very complex. Emphasizes the clinical applications of gait analysis Chapters on gait assessment of neurological diseases and musculoskeletal conditions and prosthetics and orthotics Methods of gait analysis Design features including key points A team of specialist contributors led by two internationally-renowned expert editors 60 illustrations, taking the total number to over 180 Evolve Resources containing video clips and animated skeletons of normal gait supported by MCQs, an image bank, online glossary and sources of further information. Log on to <http://evolve.elsevier.com/Whittle/gait> to register and start using these resources today!

The picture on the front cover of this book depicts a young man pulling a fishnet, a task of practical relevance for many centuries. It is a complex task, involving load transmission throughout the body, intricate balance, and eye head-hand coordination. The quest toward understanding how we perform such tasks with skill and grace, often in the presence of unpredictable perturbations, has a long history. However, despite a history of magnificent sculptures and drawings of the human body which vividly depict muscle activity and interaction, until more recent times our state of knowledge of human movement was rather primitive. During the past century this has changed; we now have developed a

considerable database regarding the composition and basic properties of muscle and nerve tissue and the basic causal relations between neural function and biomechanical movement. Over the last few decades we have also seen an increased appreciation of the importance of musculoskeletal biomechanics: the neuromotor system must control movement within a world governed by mechanical laws. We have now collected quantitative data for a wealth of human movements. Our capacity to understand the data we collect has been enhanced by our continually evolving modeling capabilities and by the availability of computational power. What have we learned? This book is designed to help synthesize our current knowledge regarding the role of muscles in human movement. The study of human movement is not a mature discipline.

Gait Analysis: An Introduction focuses on the systematic study of human walking and its contributions in the medical management of diseases affecting the locomotor system. The book first covers normal gait and pathological gait. Discussions focus on common pathologies affecting gait, amputee gait, walking aids, particular gait abnormalities, gait in the elderly and the young, moments of force, energy consumption, gait cycle, muscular activity during gait, and optimization of energy usage. The manuscript then elaborates on the methods of gait analysis, including visual gait analysis, general gait parameters, timing the

gait cycle, direct motion measurement systems, electrogoniometers, electromyography, accelerometers, gyroscopes, and force platforms. The publication tackles the applications of gait analysis, as well as clinical gait and scientific gait analysis, normal ranges for gait parameters, conversions between measurement units, and computer program for general gait parameters. The manuscript is a valuable source of data for students of physical therapy, bioengineering, orthopedics, rheumatology, neurology, and rehabilitation. Observational Gait Analysis is written to assist physical therapists and physicians to effectively evaluate pathological gait. It presents a method of gait analysis which can easily be applied in the clinic. The first edition, Normal and Pathological Gait Syllabus, was published in 1981. In 1989 the Observational Gait Analysis Handbook was published. The third edition contains changes in the normal joint ranges of motion as a result of more sophisticated and accurate equipment. Muscle actively has been revised to reflect data from a larger sample size. The phases and functional tasks are defined, and a problem solving approach to observational gait analysis is presented. A complete, evidence-based guide to orthopaedic evaluation and treatment Acclaimed in its first edition, this one-of-a-kind, well-illustrated resource delivers a vital evidence-based look at orthopaedics in a single volume. It is the ultimate

source of orthopaedic examination, evaluation, and interventions, distinguished by its multidisciplinary approach to PT practice. Turn to any page, and you'll find the consistent, unified voice of a single author—a prominent practicing therapist who delivers step-by-step guidance on the examination of each joint and region. This in-depth coverage leads clinicians logically through systems review and differential diagnosis, aided by decision-making algorithms for each joint. It's all here: everything from concise summaries of functional anatomy and biomechanics, to an unmatched overview of the musculoskeletal and nervous systems.

Biomechanics of Human Motion: Basics and Beyond for the Health Professions presents a straightforward approach to the basic principles, theories and applications of biomechanics and provides numerous techniques and examples for approaching biomechanical situations enhanced by healthcare professionals. Building on his previous work, Dr. Barney LeVeau uses clearly defined, concise terms and real-life applications rather than advanced mathematics to make teaching and learning biomechanics easier. Based upon the concept of force, the text illustrates how force is applied to the human body and how the body applies force to various objects. The emphasis is upon the pertinent factors that guide the reader to an understanding of biomechanics at a beginning level. Chapter

Topics Include: • Strength of material such as loading and stress-strain relationships • Composition and Resolution of Forces such as graphic method and mathematical method • Equilibrium such as static, first condition and second condition • Dynamics such as kinematics and kinetics • Application such as stability and balance, motion analysis, and gait What's Inside: • Simple explanations of biological & mechanical concepts • Contemporary articles at the end of each chapter providing readers with information beyond the basics • Over 240 images illustrate biomechanical situations and computations • User-friendly, uncomplicated mathematical formulas and examples Biomechanics of Human Motion: Basics and Beyond for the Health Professions provides students and clinicians of all allied health professions with a basic background and solid foundation on which to build a solid understanding of force and biomechanics. Based on ten years of experience, this book provides a valuable tool for professionals in the field of bone tumors. Although rare, when diagnosed these tumors can cause anxiety and apprehension in patients, and it is necessary to find rapid solutions and medical rehabilitation protocols capable of dealing with these delicate cases. As such those working in this field need to constantly update their knowledge to ensure an appropriate approach to this particular pathology. This book is a useful consultation tool for physiotherapists, orthopedic

oncology surgeons, rehabilitation specialists and everyone who works with bone tumors on a regular basis.

Specifically designed to address the expanding role of physical therapists in primary care, *Primary Care for the Physical Therapist: Examination and Triage, 3rd Edition* covers all the information and skills you need to be successful in the field. Updated content throughout the text helps you stay up to date on the best practices involving patient examination, medical screening, patient management, and communication. This new third edition also features a new chapter on electrodiagnostic testing, a new chapter on patients with a history of trauma, and updated information on how to screen and examine the healthy population. It's a must-have resource for any physical therapist wanting to obtain the technical expertise and clinical decision-making abilities to meet the challenges of a changing profession. Tailored content reflects the specific needs of physical therapists in primary care. Emphasis on communication skills underscores this essential aspect of quality patient care. Overview of the physical examination is provided in the text to ground therapists in the basis for differential diagnosis and recognizing conditions. NEW! Updated content throughout the text reflects the current state of primary care and physical therapy practice. NEW! New chapter on electrodiagnostic testing helps familiarize physical therapists with indications

for electrodiagnostic testing and implications of test results to their clinical decision-making. NEW! New chapter on patients with a history of trauma emphasizes the red flags that physical therapists need to recognize for timely patient referral for appropriate tests. NEW! Updated information on how to screen and examine the healthy population enhances understanding of the foundations of practice and the role that physical therapists can fill in primary care models. The medical, healthcare, and rehabilitation professions key text for over 18 years on gait. Dr. Jacquelin Perry is joined by Dr. Judith Burnfield to present today's latest research findings on human gait. This Second Edition offers a re-organization of the chapters and presentation of material in a more user-friendly, yet comprehensive format. Essential information is provided describing gait functions, and clinical examples to identify and interpret gait deviations. Learning is further reinforced with images and photographs.

This book is a practical guide to instrumented clinical gait analysis covering all aspects of routine service provision. It reinforces what is coming to be regarded as the conventional approach to clinical gait analysis. Data capture, processing and biomechanical interpretation are all described with an emphasis on ensuring high quality results. There are also chapters on how to set up and maintain clinical gait analysis services and laboratories. The book aims to describe the

theoretical basis of gait analysis in conceptual terms. It then builds on this to give practical advice on how to perform the full spectrum of tasks that comprise contemporary clinical gait analysis. Readership - Professionals from either a clinical or technical background working within clinical gait analysis services. - The extensive sections on data capture and processing will also be invaluable for those using gait analysis for research purposes. - Clinicians receiving gait analysis reports and particularly those who base clinical decisions upon gait analysis results (e.g. orthopaedic surgeons) will find it useful in understanding where the data comes from and how it can be interpreted. - Physiotherapists

The Handbook of Human Motion is a large cross-disciplinary reference work which covers the many interlinked facets of the science and technology of human motion and its measurement. Individual chapters cover fundamental principles and technological developments, the state-of-the-art and consider applications across four broad and interconnected fields; medicine, sport, forensics and animation. The huge strides in technological advancement made over the past century make it possible to measure motion with unprecedented precision, but also lead to new challenges. This work introduces the many different approaches and systems used in motion capture, including IR and ultrasound, mechanical systems and video, plus some emerging techniques. The large variety of

techniques used for the study of motion science in medicine can make analysis a complicated process, but extremely effective for the treatment of the patient when well utilised. The handbook describes how motion capture techniques are applied in medicine, and shows how the resulting analysis can help in diagnosis and treatment. A closely related field, sports science involves a combination of in-depth medical knowledge and detailed understanding of performance and training techniques, and motion capture can play an extremely important role in linking these disciplines. The handbook considers which technologies are most appropriate in specific circumstances, how they are applied and how this can help prevent injury and improve sporting performance. The application of motion capture in forensic science and security is reviewed, with chapters dedicated to specific areas including employment law, injury analysis, criminal activity and motion/facial recognition. And in the final area of application, the book describes how novel motion capture techniques have been designed specifically to aid the creation of increasingly realistic animation within films and video games, with Lord of the Rings and Avatar just two examples. Chapters will provide an overview of the bespoke motion capture techniques developed for animation, how these have influenced advances in film and game design, and the links to behavioural studies, both in humans and in robotics. Comprising a cross-

referenced compendium of different techniques and applications across a broad field, the Handbook of Human Motion provides the reader with a detailed reference and simultaneously a source of inspiration for future work. The book will be of use to students, researchers, engineers and others working in any field relevant to human motion capture.

In its Third Edition, this text addresses basic and applied physiological properties of skeletal muscle in the context of the physiological effects from clinical treatment. Anyone interested in human movement analysis and the understanding of generation and control from the musculoskeletal and neuromuscular systems in implementing movement will find this a valuable resource. A highlight color has been added to this edition's updated figures and tables, and the color plates section has been doubled, ensuring that all figures that need color treatment to clarify concepts receive this treatment. A new Clinical Problem feature uses concepts presented in each chapter in the context of a specific clinical case—for example, a spinal cord injury, a sports accident, or rehabilitation after bed rest.

This book addresses hot topics relating to talar osteochondritis dissecans: improvements in the accuracy of diagnosis, sound preoperative planning, optimal treatment and procedure-specific rehabilitation protocols. The technical

difficulties in each of these areas are identified and evidence-based guidelines are presented. With regard to diagnosis, several chapters discuss the roles of arthroscopy, standard radiography, computed tomography, magnetic resonance imaging and combined imaging modalities (PET/CT and SPECT/CT). The chapters on treatment cover various surgical options and provide an overview of the direct postoperative treatment; in addition, rehabilitation protocols are described for all the treatment procedures. The authors are leading experts in the field of foot and ankle surgery who have aimed to provide the reader with an up-to-date handbook ideal for use in clinical practice. Their reviews and opinions are based firmly on the best currently available evidence.

Advances in the material sciences, 3D printing technology, functional electrical stimulation, smart devices and apps, FES technology, sensors and microprocessor technologies, and more have lately transformed the field of orthotics, making the prescription of these devices more complex than ever before. Atlas of Orthoses and Assistive Devices, 5th Edition, brings you completely up to date with these changes, helping physiatrists, orthopaedic surgeons, prosthetists, orthotists, and other rehabilitative specialists work together to select the appropriate orthotic device for optimal results in every patient.

Features contributions from experts involved in the study, assessment, and treatment of gait disorders, including physical medicine and rehabilitation, orthopaedics, and more. This book covers: evolution of human walking; adaptation in pregnancy, aging, and alcoholism; walking for health; simulation of gait; and ten lessons about walking.

“Masterful...scary and smart, working as a horror story but also a philosophical inquiry into the nature of will and love. Perry did as much in her richly praised novel *The Essex Serpent*, but this is a deeper, more complex novel and more rewarding.” —Washington Post For centuries, the mysterious dark-robed figure has roamed the globe, searching for those whose complicity and cowardice have fed into the rapids of history’s darkest waters—and now, in Sarah Perry’s breathtaking follow-up to *The Essex Serpent*, it is heading in our direction. It has been years since Helen Franklin left England. In Prague, working as a translator, she has found a home of sorts—or, at least, refuge. That changes when her friend Karel discovers a mysterious letter in the library, a strange confession and a curious warning that speaks of Melmoth the Witness, a dark legend found in obscure fairy tales and antique village lore. As such superstition has it, Melmoth travels through the ages, dooming those she persuades to join her to a damnation of timeless, itinerant solitude. To Helen it all seems the stuff of

unenlightened fantasy. But, unaware, as she wanders the cobblestone streets Helen is being watched. And then Karel disappears. . . .

The only book to deal specifically with the treatment of gait problems in cerebral palsy, this comprehensive, multi-disciplinary volume will be invaluable for all those working in the field of cerebral palsy and gait (neurologists, therapists, physiatrists, orthopaedic and neurosurgeons, and bioengineers). The book is divided into two parts. The first is designed to help the reader evaluate and understand a child with cerebral palsy. It deals with neurological control, musculoskeletal growth, and normal gait, as well as cerebral injury, growth deformities and gait pathology in children with cerebral palsy. The second section is a comprehensive overview of management. It emphasizes the most fundamental concept of treatment: manage the child's neurologic dysfunction first and then address the skeletal and muscular consequences of that dysfunction. The book has been thoroughly updated since the previous edition, with a greater focus on treatment and several entirely new topics covered, including chapters on the operative treatment of orthopaedic deformities. The book is accompanied by a DVD containing a teaching video on normal gait and a CD-ROM containing the videos and motion analysis data of all case examples used in the book, as well as teaching videos demonstrating the specifics of many of the procedures

used in the correction of gait deformities and gait modelling examples from the Department of Bioengineering at Stanford University.

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With new coverage of postpolio syndrome, cranial orthoses, and now incorporating the perspectives of renowned physiatrists, this is a one-stop rehabilitation resource. Tips and Pearls in every chapter and a new 2-color format make accessing information a snap. Incorporates chapters on the Orthotic Prescription, Strength and Materials, and the Normal and Pathologic Gait help you understand your role in the rehabilitative process. Carries the authority and approval of AAOS, the preeminent orthopaedic professional society. Contains new chapters on: Orthoses for Persons with Postpolio Paralysis; Orthoses for Persons with Postpolio Syndromes; and Cranial Orthoses. Incorporates evidence-based recommendations into the chapters on spinal, upper- and lower-limb orthoses to help you select the most proven approach for your patients. Instrumented gait analysis systems offer objective evaluation of the effectiveness of the various rehabilitation treatments that are aimed at improving gait disabilities. There are four sections in this report: clinical observation; review of the instrumental gait analysis systems; the value of information resulting from instrumented gait analysis from the perspective of a psychiatrist, an orthopedic

surgeon, & a physical therapist; & discussion of future trends for gait laboratories. The authors are experts from multiple rehabilitation specialties to give you an understanding of how gait analysis can be used to evaluate a person's walking abilities to maximize function & maintain or improve quality of life. Illustrations.

How did the land of the free become the home of the world's largest prison system? Elizabeth Hinton traces the rise of mass incarceration to an ironic source: not the War on Drugs of the Reagan administration but the War on Crime that began during Johnson's Great Society at the height of the civil rights era.

In this intimate book of inspiration, Tyler Perry writes of how his faith has sustained him in hard times, centered him in good times, and enriched his life. Higher Is Waiting is a spiritual guidebook, a collection of teachings culled from the experiences of a lifetime, meant to inspire readers to climb higher in their own lives and pull themselves up to a better, more fulfilling place. Beginning with his earliest memories of growing up a shy boy in New Orleans, Perry recalls the moments of grace and beauty in a childhood marked by brutality, deprivation, and fear. With tenderness he sketches portraits of the people who sustained him and taught him indelible lessons about integrity, trust in God, and the power of forgiveness: his aunt Mae, who cared for her grandfather, who was born a slave, and sewed quilts that told a story of generations; Mr. Butler, a blind man of

remarkable dignity and elegance, who sold penny candies on a street corner; and his beloved mother, Maxine, who endured abuse, financial hardship, and the daily injustices of growing up in the Jim Crow South yet whose fierce love for her son burned bright and never dimmed. Perry writes of how he nurtured his dreams and discovered solace in nature, and of his resolute determination to reach ever higher. Perry vividly and movingly describes his growing awareness of God's presence in his life, how he learned to tune in to His voice, to persevere through hard times, and to choose faith over fear. Here he is: the devoted son, the loving father, the steadfast friend, the naturalist, the philanthropist, the creative spirit—a man whose life lessons and insights into scripture are a gift offered with generosity, humility, and love.

This volume presents the contributions of the fifth International Conference on Advancements of Medicine and Health Care through Technology (Meditech 2016), held in Cluj-Napoka, Romania. The papers of this Proceedings volume present new developments in - Health Care Technology, - Medical Devices, Measurement and Instrumentation, - Medical Imaging, Image and Signal Processing, - Modeling and Simulation, - Molecular Bioengineering, - Biomechanics.

Offers a comprehensive overview of lower limb prosthetics and orthotics, covering normal and pathological gait, lower limb biomechanics, clinical applications, as well as prosthetics and orthotic design and components. This text is suitable for clinicians in the fields of physical

medicine and rehabilitation, and, orthopedic and vascular surgery.

This volume presents the proceedings of the CLAIB 2016, held in Bucaramanga, Santander, Colombia, 26, 27 & 28 October 2016. The proceedings, presented by the Regional Council of Biomedical Engineering for Latin America (CORAL), offer research findings, experiences and activities between institutions and universities to develop Bioengineering, Biomedical Engineering and related sciences. The conferences of the American Congress of Biomedical Engineering are sponsored by the International Federation for Medical and Biological Engineering (IFMBE), Society for Engineering in Biology and Medicine (EMBS) and the Pan American Health Organization (PAHO), among other organizations and international agencies to bring together scientists, academics and biomedical engineers in Latin America and other continents in an environment conducive to exchange and professional growth.

A journalist for National Public Radio and ABC News recounts the challenges he has faced as a paraplegic at home and abroad, from the dangers of war-torn Iraq and Jerusalem to discrimination at home. Reprint.

Covering both upper and lower extremity prosthetics, this book provides the information clinicians need to manage a range of prosthetic patients, and their disorders. The authors cover practical solutions to everyday problems that clinicians encounter, from early prosthetic management to issues facing the more advanced prosthetic user. The text is broken down into four sections encompassing the range of subjects that confront practitioners, including Early Management; Rehabilitation of Patients with Lower Limb Amputation; Rehabilitation of Patients with Upper Limb Amputations; and Beyond the Basics, which includes special considerations for children and futuristic concepts.

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Focusing on the lower extremities and spine, this extensively illustrated text presents a problem-solving approach to the evaluation and prescription of prosthetics and orthotics in physical therapy interventions. Prosthetics and Orthotics presents the latest developments in materials and fabrications, an in-depth analysis of gait deviations and interventions, conditions, psychosocial issues, biomechanics, and more. This invaluable resource also includes pediatric and geriatric perspectives, scientific literature supporting evidence-based practice, exercise and functional activities for the patient, case studies following the APTA's "Guide to Physical Therapist Practice", critical thinking questions, lab activities and practical applications.

This text provides the most up-to-date information on evidence-based practice, the concepts underlying evidence-based practice, and implementing evidence into the rehabilitation practice. This text is organized by the steps of the process of evidence-based practice--introduction to evidence-based practice, finding the evidence, assessing the evidence, and using the evidence.

Provides a detailed clinical introduction to the application of biomechanics to the understanding and treatment of walking disorders. Practical issues in the performance of a three-dimensional clinical gait analysis are covered, together with several clinical cases illustrating the interpretation of findings. These cases also demonstrate the use of a variety of treatment methodologies, including physical therapy, walking aids, prosthetics and orthotics, botulinum toxin and surgery.

Observational Gait Analysis: A Visual Guide is a pedagogical manual and video library that provides a thorough review of key characteristics of normal gait that

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are important for observational clinical gait analysis. This visual guide by Drs. Jan Adams and Kay Cerny has unique features to further the understanding of examination and evaluation of the subject's gait, such as: Normal and pathological gait are described using figures and graphs, along with gait videos and 3D graphs to show the kinematics and kinetics described Functional tools used as outcome measures to evaluate gait performance in the community environment including Dynamic Gait Test, Six Minute Walk Test, Ten Meter Walk Test, to name a few In addition to the unique features, the pathological gait section presents descriptions of gait deviations included in a new clinical Observational Gait Analysis (OGA) tool, along with probable causes for each of the deviations. Case studies are presented using this new tool for examining and evaluating the subject's gait. Bonus! Students will be able to watch antero-posterior and lateral videos of individuals with gait deviations, complete the OGA tool to document their gait examination, and evaluate their examination results. They will then validate their observational skills by comparing their results to the text's case study OGA results and the skeletal model and motion and moment graphs completed by 3D instrumented analysis of the same individual. The student will then compare their evaluation of causes of deviations to that included in the case study. Instructors in educational settings can

visit www.efacultyounge.com for additional materials to be used in the classroom. *Observational Gait Analysis: A Visual Guide* will be the go-to resource for clinical tools to analyze gait for physical therapy and prosthetic and orthotic students and clinicians, as well as other professionals interested in the clinical analysis of persons with gait disability.

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

A step-by-step introduction to modeling, training, and forecasting using wavelet networks *Wavelet Neural Networks: With Applications in Financial Engineering, Chaos, and Classification* presents the statistical model identification framework that is needed to successfully apply wavelet networks as well as extensive comparisons of alternate methods. Providing a concise and rigorous treatment for constructing optimal wavelet networks, the book links mathematical aspects of wavelet network construction to statistical modeling and forecasting applications in areas such as finance, chaos, and classification. The authors ensure that readers obtain a complete understanding of model identification by providing in-depth coverage of both model selection and variable significance testing.

Featuring an accessible approach with introductory coverage of the basic principles of wavelet analysis, *Wavelet Neural Networks: With Applications in Financial Engineering, Chaos, and Classification* also includes:

- Methods that can be easily implemented or adapted by researchers, academics, and professionals in identification and modeling for complex nonlinear systems and artificial intelligence
- Multiple examples and thoroughly explained procedures with numerous applications ranging from financial modeling and financial engineering, time series prediction and construction of confidence and prediction intervals, and classification and chaotic time series prediction
- An extensive introduction to neural networks that begins with regression models and builds to more complex frameworks
- Coverage of both the variable selection algorithm and the model selection algorithm for wavelet networks in addition to methods for constructing confidence and prediction intervals

Ideal as a textbook for MBA and graduate-level courses in applied neural network modeling, artificial intelligence, advanced data analysis, time series, and forecasting in financial engineering, the book is also useful as a supplement for courses in informatics, identification and modeling for complex nonlinear systems, and computational finance. In addition, the book serves as a valuable reference for researchers and practitioners in the fields of mathematical modeling, engineering, artificial intelligence, decision

science, neural networks, and finance and economics.

This book provides an introduction to the basic sciences pertaining to the musculoskeletal tissues as well as to the clinical practice, i.e., diagnosis and treatment of the wide variety of disorders and injuries from which these tissues may suffer. Its scope includes the "surgical" subjects of orthopaedics and fractures as well as the "medical" subjects of rheumatology, metabolic bone disease and rehabilitation. Compatibility: BlackBerry® OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher / Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile™ Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

This book encompasses the extensive work of Dr. Perry and her successful years as a therapist and surgeon, renowned for her expertise in human gait. The text is broken down into four sections: Fundamentals, Normal Gait, Pathological Gait, and Gait Analysis Systems. In addition to the descriptions of the gait functions, a representative group of clinical examples has been included to facilitate the interpretation of the identical gait deviations. The book includes detailed laboratory records and more than 450 expert illustrations and photographs. Gait Analysis is the essential reference for all health care professionals involved in musculoskeletal patient care, and has already been

incorporated into many athletic training programs, university physical therapy programs and gait workshops across the country. Special Features Clinical significance of the most common pathological gait patterns. Patient examples to illustrate elements of normal and pathological gait. Over 450 illustrations and photographs with detailed descriptions providing essential information at a glance. Contents FUNDAMENTALS: Gait Cycle, Phases of Gait, Basic Functions NORMAL GAIT: Ankle Foot Complex, Knee, Hip, Head, Trunk and Pelvis, Arm, Total Limb Function PATHOLOGICAL GAIT: Pathological Mechanisms, Ankle and Foot Gait Deviations, Knee Abnormal Gait, Hip Gait Deviations, Pelvis and Trunk Pathological Gait, Clinical Examples GAIT ANALYSIS SYSTEMS: Motion Analysis, Dynamic Electromyography, Ground Reaction Forces and Vectors, Stride Analysis, Energetics

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