Innovative approaches to the diagnosis, treatment, and care of children with ocular motor disorders and visual perceptual difficulties are now available in the groundbreaking Developing Ocular Motor and Visual Perceptual Skills. This important new resource provides the pediatric ophthalmologist, vision therapist, eye care professional, and allied health professional with a state-of-the-art, evidence-based, and user-friendly approach to the comprehensive care of children with ocular motor and visual perceptual problems.

This revolutionary workbook provides an introduction to the neuro-anatomy and function of the ocular motor system. The first part of the book covers the normal operation of the ocular motor system and the problems that occur when these processes are disrupted. The second part of the book describes the remediation strategies that are employed to address these problems. The third part of the book provides a series of exercises and activities that can be used to help children develop and enhance their ocular motor and visual perceptual skills.

Developing Ocular Motor and Visual Perceptual Skills is an important resource for anyone involved in the care of children with ocular motor and visual perceptual problems. It is a must-have for all pediatric ophthalmologists, vision therapists, eye care professionals, and allied health professionals.

Handbook of Pediatric Neuro-Ophthalmology

The Handbook of Pediatric Neuro-Ophthalmology is an essential resource for anyone involved in the care of children with ocular motor disorders and visual perceptual difficulties. This comprehensive reference provides an introduction to the neuro-anatomy and function of the ocular motor system. The book covers the normal operation of the ocular motor system and the problems that occur when these processes are disrupted. The second part of the book describes the remediation strategies that are employed to address these problems. The third part of the book provides a series of exercises and activities that can be used to help children develop and enhance their ocular motor and visual perceptual skills.

Pediatric Neuro-Ophthalmology

Pediatric Neuro-Ophthalmology - Diagnosis, Treatment, and Rehabilitation is a comprehensive reference for all health care professionals who care for children. The book covers the normal operation of the ocular motor system and the problems that occur when these processes are disrupted. The second part of the book describes the remediation strategies that are employed to address these problems. The third part of the book provides a series of exercises and activities that can be used to help children develop and enhance their ocular motor and visual perceptual skills.

Pediatric Neuro-Ophthalmology - Diagnosis, Treatment, and Rehabilitation

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Pediatric Neuro-Ophthalmology - Diagnosis, Treatment, and Rehabilitation
Visual ecology is the study of how animals use visual systems to meet their ecological needs, how these systems have evolved, and how they are specialized for particular visual tasks. Visual Ecology provides the first up-to-date synthesis of the field to appear in more than three decades. Featuring some 225 illustrations, including more than 140 in color, spread throughout the text, this comprehensive and accessible book begins by discussing the basic properties of light and the optical environment. It then looks at how photoreceptors intercept light and convert it to usable biological signals, how the pigments and cells of vision vary among animals, and how the properties of these components affect a given receptor's sensitivity to light. The book goes on to examine how eyes and photoreceptors became specialized for an array of visual tasks, such as navigation, evading prey, mate choice, and communication. A timely and much-needed resource for students and researchers alike, Visual Ecology also includes a glossary and a wealth of examples drawn from the full diversity of visual systems and species. The most up-to-date overview of visual ecology available. Features some 225 illustrations, including more than 140 in color, spread throughout the text. Guides readers from the basic physics of light to the role of visual systems in animal behavior. Includes a glossary and a wealth of real-world examples.

The ability to see deeply affects how human beings perceive and interpret the world around them. For most people, eyesight is part of everyday communication, social activities, educational and professional pursuits, the care of others, and the maintenance of personal health, independence, and mobility. Functioning eyes and vision system can reduce the adult's risk of chronic health conditions, death, falls and injuries, social isolation, depression, and other psychological problems. In children, properly maintained eye and vision health contributes to a child's social development, academic achievement, and better health across the lifespan. The public generally recognizes its reliance on sight and fears its loss, but emphasis on eye and vision health, in general, has not been integrated into daily life to the same extent as other health promotion activities, such as teeth brushing; hand washing; physical and mental exercise; and various injury prevention behaviors. A larger population health approach is needed to engage a wide range of stakeholders in coordinated efforts that can sustain the scope of behavior change. The shaping of socioeconomic environments can eventually lead to new social norms that promote eye and vision health. Making Eye Health a Population Health Imperative: Vision for Tomorrow proposes a new population-centered framework to guide action and coordination among various, and sometimes competing, stakeholders in pursuit of improved eye and vision health and health equity in the United States. Building on the momentum of previous public health efforts, this report also introduces a model for action that highlights different levels of prevention activities across a range of stakeholders and provides specific examples of how population health strategies can be translated into cohesive areas for action at federal, state, and local levels.

There is perhaps no area of neuro-ophthalmology that is advancing more rapidly with respect to an understanding of its anatomy and physiology than the ocular motor system. For this reason, it is difficult not only to keep up with the latest information concerning the basic mechanisms involved in the control of eye movements but also to remain up to date regarding the pathophysiology of specific disorders of eye movement. The material in this book is derived from a two-day course on eye movements held in The Netherlands in 1986. The course was designed as an introduction to the normal ocular motor system and to disorders of eye movements and was aimed toward orthoptists, ophthalmologists, optometrists, neurologists, and neurosurgeons. The chapters in this book were compiled by a trio of experts in the field of eye movements and contain discussions of anatomy and physiology of the ocular motor system, techniques of examination of patients with diplopia, and pathophysiology of specific disorders of ocular motility. Many of the authors of these chapters are among the most active investigators of eye movements in the world today, and their comments thus reflect the latest information in the field. This text is both basic and comprehensive and thus has something for everyone, from the student just beginning a study of the ocular motor system to the seasoned 'veteran' who wishes to know the latest information regarding central ocular motor control mechanisms. Neil R.

[This text] discusses the details of vision therapy for eye movement and visual perceptual deficits. OP [Occupational Therapists] management of vision problems specific to autism, acquired brain injury patients, learning disabled children, developmentally delayed, multiply impaired children, and low vision patients are just a few of the topics covered inside this comprehensive resource.-Back cover.

It is not necessary to experience pain while sitting at your office workstation. Office injuries, including pains and strains caused by cumulative stresses, pose a serious threat to your overall health and to the quality of your work. Use this book to break free from harmful habits and improve your ergonomic setup, including the most important factor in the ergonomics equation: YOU! If you: Use a computer Write at a desk Talk on the phone This book will increase your productivity and efficiency at work, improve safety and breathing and help to reduce: Injuries Stress Wrist pain Back pain Neck pain Eye strain Headaches The Alexander Technique Through studying the Alexander Technique, you will learn a process of awareness in action that can be applied to any situation or activity. You will learn to think consciously about what you are doing and how to respond to activities in your workplace with ease and spontaneity. Through building an awareness of your core movement patterns and how to fundamentally change them for the better, you will experience improvements in your physical and mental health and well-being. Ann Rodiger is the founder and director of the Balance Arts Center in New York City. She has been teaching the Alexander Technique for 30 years. She is also a specialist in movement education and analysis, dance, and Labanotation. She has Alexander Technique practices in New York City and Berlin, Germany. She has been on the faculty of several major universities in the United States.”

How to help a child with learning disabilities be successful.
New chapters, new editors and contributors make Taylor and Hoyt's Pediatric Ophthalmology and Strabismus, 5th Edition, the most current and complete reference available in this evolving field. Editors Scott R. Lambert and Christopher J. Lyons, both globally recognized leaders, provide authoritative coverage of all the pediatric ophthalmic conditions you're likely to encounter in practice, including the latest clinical advances in etiology, diagnosis, and medical and surgical management. Expert guidance on the complete spectrum of childhood eye disorders and strabismus, including a unique "practical problems" section designed to help you handle difficult patient situations. More than 1,800 high-quality images and artworks provide visual guidance in diagnosis and management. A practical "how to" perform strabismus surgery chapter with extensive step-by-step artworks for confidence. Consult this one-stop, easy-to-read, conduct rapid searches, and adjust font sizes for optimal readability. Comprehensive updates of all topics, with nine brand-new chapters covering significant advances in the management of refractive errors in children; binocular vision; conjunctival tumors; optimal approaches to patient-family communication, and a unique chapter on the impact of mobile apps for the pediatric ophthalmologist. State-of-the-art coverage of key areas such as OCT and all of the newest imaging techniques for the eye, orbit and visual pathways; anti-VEGF treatment for retinopathy of prematurity; and minimally invasive strabismus surgery.

Written by highly experienced clinicians, this volume is the first text to integrate basic concepts of vision development with clinical diagnosis and treatment of pediatric vision disorders. Coverage begins with a thorough review of the normal course of vision development, focusing on the years from birth through preschool. The next section presents a comprehensive, step-by-step clinical methodology for evaluating visual function. Subsequent chapters discuss treatment strategies, including parameters for prescribing lenses for children, notes on when not prescribing is appropriate, options in strabismus and amblyopia, and visual therapy for very young children. More than 200 illustrations complement the text.

Vision therapy techniques can correct not only visual problems, but also cognitive, emotional and physical difficulties. Based on the pioneering work of Dr Melvin Kaplan, this research-based book explains the basis of vision therapy, why it can help, and the outcomes it can bring. Visual perceptual problems can cause an array of difficulties, from reading and writing, to issues with balance, clumsiness, and tunnel vision. Severe symptoms can lead to a diagnosis of anxiety, depression, learning disability or even autism. In this groundbreaking book, Dr Kaplan shows how these symptoms point to interventions that change the way that the eyes process information, permanently counteracting visual deficits and impacting on behaviour. Case studies demonstrate how to plan and implement visual management programs according to a patient's symptoms, illustrating the wide range of life-changing results that vision therapy can achieve for people of all ages, regardless of the severity of symptoms. Dr Kaplan also shares his expert knowledge of ambient yoked prisms - a tool that transforms light to alter visual stimulation, dramatically transforming perception and cognition. This accessible book presents readers - including parents and families, clinicians, and other professionals working with individuals with visual perception problems - with a comprehensive introduction to the benefits and methods of vision therapy.

The distinguished contributors to this volume have been set the problem of describing how we know where to move our eyes. There is a great deal of current interest in the use of eye movement recordings to investigate various mental processes. The common theme is that variations in eye movements indicate variations in the processing of what is being perceived, whether in retinal or scene perception or memory. However, a number of problems of interpretation are now emerging, and this edited volume sets out to address these problems. The book investigates controversies concerning the variations in eye movements associated with reading ability, concerning the extent to which text is used by the guidance mechanism while reading, concerning the relationship between eye movements and the control of other body movements, the relationship between what is inspected and what is perceived, and concerning the role of visual control attention in the acquisition of complex perceptual-motor skills, in addition to the nature of the guidance mechanism itself. The origins of the volume are in discussions held at a meeting of the European Society for Cognitive Psychology (ESCoP) that was held in Wurzburg in September 1996. The discussions concerned the landing effect in reading, an effect that if substantiated, would provide evidence of the use of parafoveal information in eye guidance, and these discussions were explored in more detail at a small meeting in Chamonix, in February 1997. Many of the contributors to this volume were present at the meeting, but the arguments were not resolved in Chamonix either. Other leaders in the field were invited to contribute to the discussion, and this volume is the product. The argument remains unresolved, but the problem is certainly clearer.

Developing healthy visual-motor abilities is more difficult in the complex stimulus of today's world than ever before. Our visual experiences can be overwhelmed by the vast complexity of artificial colors and sounds which did not exist in our ancestors' lives. Much more time is spent indoors, exposed to a myriad of unnatural colors, movement and imagery. We hibernate inside, interacting with machines instead of being out in the sunlight, looking at the far horizons, exploring natural environments. More and more time is spent sitting rather than moving, watching rather than doing. Here is a book that has: An overview of the development of vision, with a checklist of warning signs of vision problems-based on the studies of behavioral optometry A discussion of the importance of integrating all the senses equally in the development of optimal visual skills, rooted in the field of occupational therapy Practical, playful activities designed to improve visual skills in both adults and children. Excellent for use at home, in the clinic, at school, or amid outdoor settings

Pediatric Neuroophthalmology details the diagnostic criteria, current concepts of pathogenesis, neuroradiological correlates, and clinical management of a large group of neuroophthalmic disorders that present in childhood. Surprisingly distinct from neuroophthalmic disorders afflicting adults, this set of diseases falls between the cracks of most ophthalmology training, and thus, warrants a practical, clinical guide for the practitioner in ophthalmology - the neuroophthalmologist, pediatric ophthalmologist, general ophthalmist - as well as neurologists and for residents. The authors, leading pediatric ophthalmologists, have taken this difficult subject matter and developed an accessible, user-friendly manual with a detailed approach to the recognition, differential diagnosis, and management of pediatric neuroophthalmologic disorders.

A sequel for older students to the author's earlier book, "Learn to move, move to learn: sensorimotor early childhood activity themes". A presents a series of themed activities designed to improve children’s sensory issues, making them ready to learn. Excellent for use at home, in the clinic, at school, or amid outdoor settings

Suggested curriculum ideas help ensure sensory issues are implemented throughout the curriculum.

Does your child struggle with reading and writing and cannot keep up in school? The school psychologist has attributed to normal intelligence and visual tests confirm perfect eyesight? Nonetheless, your child's learning disability can be caused by undetected problems with visual functions and information processing. These disorders cannot be diagnosed by routine visual acuity tests, yet have devastating effects on a child’s academic performance. Affected children face barriers in concentration, reading and spelling that limit their educational opportunities. They have difficulty focusing, their information processing speed is too slow, their brain is unable to adequately process visual or auditory perceptions. What are the underlying causes? What are the indicators to be aware of? And most importantly, what can you do to help your child A comprehensive analysis of visual brain
functions is an essential first step. The good news is that vision is an acquired brain function, With Optometric Vision Therapy, children can train their visual functions, improve their ability to focus, their speed in reading and comprehension and their ability to “scan in” spelling details. This book provides an accessible framework for parents, educators, and therapists and: informs about the brain functions and changes between vision and learning; explores the neurophysiological processes underlying our visual and auditory functions, the meaning behind terms like “visual information processing” and “auditory information processing,” and the impact they have on our cognition, intelligence, concentration and overall ability to learn; explains the typical symptoms of disorders of visual and auditory functions and processing, and why children with these conditions need therapy; describes how such disorders can be diagnosed; outlines why and how Optometric Vision Therapy works; provides information about special needs and the necessary support and assistance in school

Developmental.

This well-illustrated book presents the latest diagnostic concepts and management techniques in the rapidly expanding subspecialty of pediatric oculofacial plastic surgery. Covering all aspects of the field and taking into account numerous surgical innovations and exciting new medical treatment concepts that have emerged since publication of the previous edition in 2002, Pediatric Oculoplastic Surgery, 2nd Edition will prove to be an invaluable resource for both the comprehensive ophthalmologist and the subspecialist with a particular interest in pediatric disorders of the eyelids, orbit, and nasolacrimal system. Topics discussed, in addition to clearly illustrated basic oculoplastic procedures, include surgical innovations ranging from the Sonopet system for safer removal of bone in lacrimal surgery to the development of complex image guidance technology for sinus and orbital surgery. Detailed discussion of syndromic and non-syndromic congenital anomalies explore a variety of surgical techniques and the nuances of applying these approaches in the management of various structural abnormalities. Further important advances include new analytic laboratory techniques, which can illuminate the genetic basis of many pediatric oculoplastic disorders, various medical management advances such as the role of beta blockers in the treatment of facial and orbital hemangiomas, and the development of biologic pathway blockers inhibiting tumor growth which offer real potential for reducing the necessity of surgical intervention.

Quick engaging activities designed specifically for younger students attention levels. Eight different skill sections that become progressively more challenging

By exploring how visual problems develop, this comprehensive book shows how visual dysfunctions can be reversed through effective and efficient therapy, which will help children reach their full potential and see the world clearly. Original.

This book describes, illustrates, and shares our current understanding, evaluation, and treatments of nystagmus in infancy and childhood. Nystagmus in Infancy and Childhood will provide clinicians with algorithms for examination, descriptions of diagnostic techniques, and medical, surgical, and alternative treatments of the visual system in infants and children with nystagmus.

In typical child development, attention controls many aspects of learning, including memory, motor control, and problem solving. It organizes the constant influx of information that needs to be absorbed by children. Inside Visual Attention in Children: Theories and Activities, Dr. Kenneth A. Lane describes the positive aspects of attention that are needed for children to be successful in the vision, such as concentration and vigilance, as opposed to negative aspects that can lead to failure, such as distractibility and confusion. This book is divided into two parts. The first eight chapters of the book explain attention and its relationship to vision and visual stimuli. The core topics discussed here include Autism, ADHD, Dyslexia, Executive Function, and Memory. The second half outlines a Vision Therapy program and consists of activities for improving visual attention in children. Over 100 activities are explained and illustrated. Visual Attention in Children: Theories and Activities is anchored on current theories in five areas of attention that shape child development. Theories Described Include: • Focused Attention - The ability to respond discretely to visual, auditory, and tactile stimuli • Selective Attention - The ability to maintain behavior or cognitive abilities in the face of distracting or competing stimuli • Shifting Attention - The ability to rapidly shift attention from one object to another • Sustained Attention - The ability to maintain a consistent behavioral response during a continuous or repetitive activity • Divided Attention - The ability to engage in more than one attention-focused task at one time. Visual Attention in Children: Theories and Activities is the perfect tool for occupational therapy students and clinicians as well as other professionals specializing in child development and learning who are looking to enhance their understanding of this topic and who need unique ideas and activities to add to their visual therapy training programs.

The aim of this book has always been to give guidance on the diagnosis and treatment of oculomotility disorders based on clinical experience, as opposed to a comprehensive treatise on the subject drawn from the primary literature. The Third Edition sees a new team of authors who have kept very much to this principle in their nevertheless thorough revision of the book. Whilst there are no new chapters as such, the immediate impact of the revision is in the improved page layout with increased use of diagrams and flowcharts. There are new sections on feigned visual loss in adults and children, the management of residual defects and the section on botulinum toxin treatment in chapter 8 will be re-written to take account of the great advances in this form of treatment.

Some of the best vision scientists in the world in their respective fields have contributed to chapters in this book. They have expertise in a wide variety of fields, including bioengineering, basic and clinical visual science, medicine, neurophysiology, optometry, and psychology. Their combined efforts have resulted in a high quality book that covers modeling and quantitative analysis of optical, neural/sensory, oculomotor, perceptual and clinical systems. It includes only those techniques and models that have such fundamentally strong physiological, control system, and perceptual bases that they will serve as foundations for models and analysis techniques in the future. The book is aimed first towards seniors and beginning graduate students in biomedical engineering, neurophysiology, optometry, and psychology, who will gain a broad understanding of quantitative analysis of the visual system. In addition, it has sufficient depth in each area to be useful as an updated reference and tutorial for graduate and post-doctoral students, as well as general vision scientists.

Willard and Spackman’s Occupational Therapy, Twelfth Edition, continues in the tradition of excellent coverage of critical concepts and practices that have long made this text the leading resource for Occupational Therapy students. Students using this text will learn how to apply client-centered, occupational, evidence based approaches across the full spectrum of practice settings. Peppered with first-person narratives, which offer a unique perspective on the lives of those living with disease, this new edition has fully been updated with a visually enticing full color design, and even more photos and illustrations. Vital pedagogical features, including case studies, Practice Dilemmas, and Provocative questions, help position students in the real-world of occupational therapy practice to help prepare them to react appropriately.

Many children find it difficult to behave and function adequately in a classroom setting. In A Step Ahead, author Dr. David L.
Biles discusses the practical activities that can help to eliminate the symptoms that come with this problem. This booklet, designed for parents and teachers to use with children, presents activities intended to improve eye tracking for better reading, balance, memory, and concentration for overall academic improvement. A Step Ahead includes information to help you identify potential academic inefficiencies in children; it also provides activities to help with the remediation. Backed by years of research, each section of A Step Ahead lays out its premise, analysis, treatment, and expected results. Guide your children to achieve the academic success they deserve and take the opportunity to create play time with them. You can prepare your children for their future and have fun while doing it with A Step Ahead.

Providing the information required to understand, advocate for, and supply post-acute vision rehabilitative care following brain injury, Vision Rehabilitation: Multidisciplinary Care of the Patient Following Brain Injury bridges the gap between theory and practice. It presents clinical information and scientific literature supporting the diagnostic and therapeutic strategies applied in a comprehensive overview of current diagnostic and treatment strategies in adult post-brain injury vision rehabilitation. Includes a foreword by Dr. Sue Barry Because post-brain injury rehabilitation works best in a team setting where the entire person can be treated, this text has been carefully designed as a multidisciplinary resource with an emphasis on models for working with the rehabilitation team. The book covers a myriad of topics such as post-brain injury vision rehabilitation; eye movements; binocular dysfunction; visual field loss; visual-spatial neglect; shifts in visual egocenter affecting balance and coordination; visual-vestibular interactions; central vs. peripheral visual attention; as well as deficits in object perception, visual memory, and visual cognition. The book details models that vision specialists working with the rehabilitation team can use to achieve the best success for the patient in rehabilitation; vision rehabilitation concepts and the science from which they have been developed; examples of therapeutic exercises; practice management information for the post-brain injury vision rehabilitation practice; and information on the legal process in which one frequently becomes involved in this type of work. Edited by eminent clinicians, the book highlights the work of contributors who are well-respected academicians and researchers, bringing together the clinical information that enables everyone involved in a brain injury case to grasp the diagnostic and therapeutic strategies.