Clinical Optics Primer for Ophthalmic Medical Personnel: A Guide to Laws, Formulae, Calculations, and Clinical Applications

Aaron V. Shukla PhD COMT
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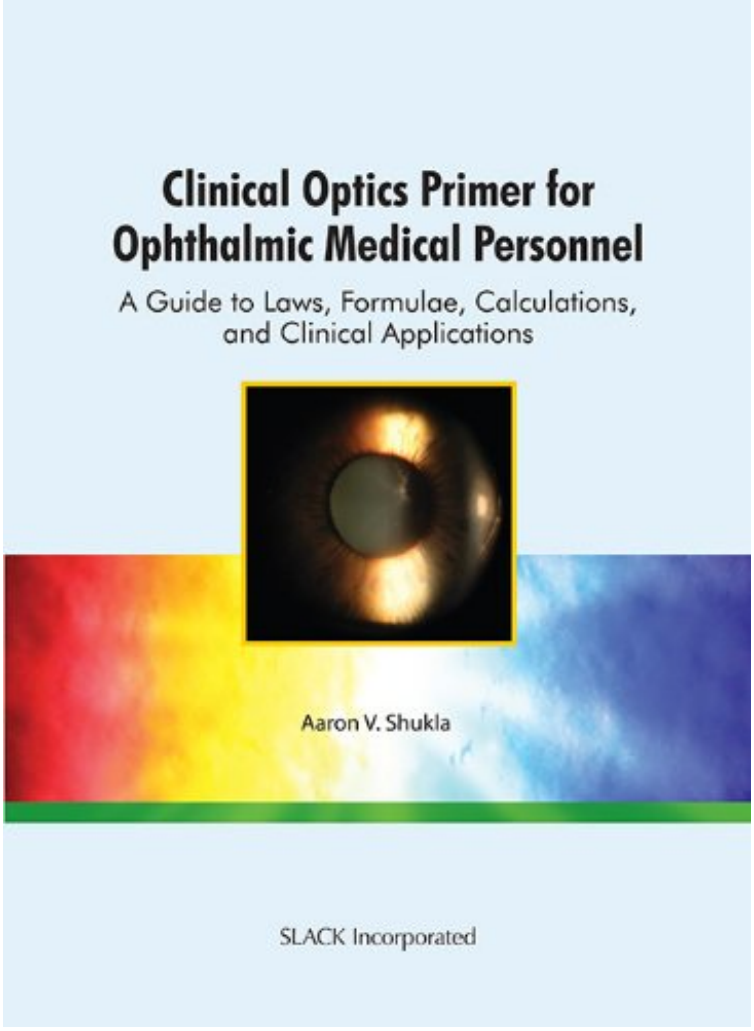

#2456701 in Books 2009-02-01Original language:EnglishPDF # 1 10.00 x .50 x 7.00l, 1.27 #File Name: 1556428995200 pages | File size: 45.Mb

Aaron V. Shukla PhD COMT : Clinical Optics Primer for Ophthalmic Medical Personnel: A Guide to Laws, Formulae, Calculations, and Clinical Applications before purchasing it in order to gage whether or not it would be worth my time, and all praised Clinical Optics Primer for Ophthalmic Medical Personnel: A Guide to Laws, Formulae, Calculations, and Clinical Applications:

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Are you looking for an all-inclusive, comprehensive resource on clinical optics? Look no further than the Clinical Optics Primer for Ophthalmic Medical Personnel: A Guide to Laws, Formulae, Calculations, and Clinical Applications, a new text that presents complex clinical optics in a simple and easy-to-read manner. As ophthalmic medical personnel struggle today between multiple resources for clinical optics, this text offers a solution as it provides everything you need to know all in one place. Aaron V. Shukla, PhD, COMT has designed Clinical Optics Primer for Ophthalmic Medical Personnel to include everyday examples that may be directly applied to clinical work. Each chapter throughout the text explains one optics concept in a concise account and includes applicable illustrations, formulae, laws, calculations, and review questions. Numerous examples of clinical applications are also included that address problems presented by patients in eye clinics. Some important laws of optics and their clinical applications covered: Lasers, polarization interference, and fluorescence Snells law Total internal reflection Some important formulae in optics and their clinical applications covered: Vergence equation Power of prisms Optical system of the eye Accommodation and age Refractive errors Prentices Rule, decentration and induced prism Glasses and contact lenses With the most up-to-date information for clinical optics, and two chapters solely devoted to the metric system and basic optical mathematics, Clinical Optics Primer for Ophthalmic Medical Personnel: A Guide to Laws, Formulae, Calculations, and Clinical Applications is essential for all ophthalmic assistants, technicians, and technologists, as well as optometrists and ophthalmology residents.

About the AuthorAaron Shukla was born and raised in Lucknow, India, a state capital in the north Indian state of Uttar Pradesh. With forebears in medicine, he was keen on a medical career. As an undergraduate in Lucknow University, he also became interested in geology, mineralogy, and crystallography, and thus pursued both majors. He arrived in the United States in 1974, earning a masters degree in geology from Princeton University in New Jersey, and a doctorate in 1980 from Rensselaer Polytechnic Institute in New York State. Subsequently, he worked as a senior geologist for Texaco in Houston, TX. While there, his work interests included geochemistry, mineralogy, and using polarized light and electron beams to interpret changes in petroleum rocks and sediments that produce pore spaces in which oil and gas can accumulate. He was particularly interested in using optics and light phenomena for mineralogy. But, the embers of medical interests continued to smolder! In 1996, he graduated with honors from Portland Community College, Portland, OR, earning an associate of applied science degree in ophthalmic medical technology. From there he started on the long road to acquiring experiences and expertise as a COT, then as a COMT, in clinic and surgery. Of particular interest were optics, strabismus, visual fields, neuro-ophthalmology, and pediatric ophthalmology. In 2000, Dr. Shukla joined the University of Arkansas for Medical Sciences (UAMS), Little Rock, AR. As an assistant professor at UAMS, he was the founding chairman of the Department of Ophthalmic Technologies and its technologist-level education program for the College of Health Related Professions and The Harvey and Bernice Jones Eye Institute of the Department of Ophthalmology, School of Medicine. The technologist program earned its initial accreditation in 2004 and is continuing with great success. The graduates of that program became the first COMTs in Arkansas. Successes in Arkansas brought opportunities, and in 2004, Dr. Shukla joined the Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO) as its founding director of program and services. At JCAHPO, he was instrumental in developing the Learning Systems, the interactive DVD for ophthalmic medical personnel (OMP) interested in learning keratometry, tonometry, lensometry, visual fields, ocular motility, retinoscopy, and refinement. These modules are also of critical use in preparing for JCAHPOs COT Skill Test for certification. In 2005, he joined Eye Care Associates, P.A., Minneapolis, MN, as its director of education, while also providing services as a COMT. In 2006, Dr. Shukla joined St. Catherine University as an associate professor and founding program director of the Ophthalmic Technician Programa technician-level education program. Dr. Shukla has been a volunteer faculty member for JCAHPO and Association of Technical Personnel in Ophthalmology (ATPO) since 1996, giving lectures and workshops at annual and regional meetings, and he has published articles on optics, clinical work, and various tests and procedures. He continues to be active with JCAHPO and ATPO, and was elected ATPOs vice president in 2007. He will assume responsibilities as its president in 2009, and immediate past president in 2010.