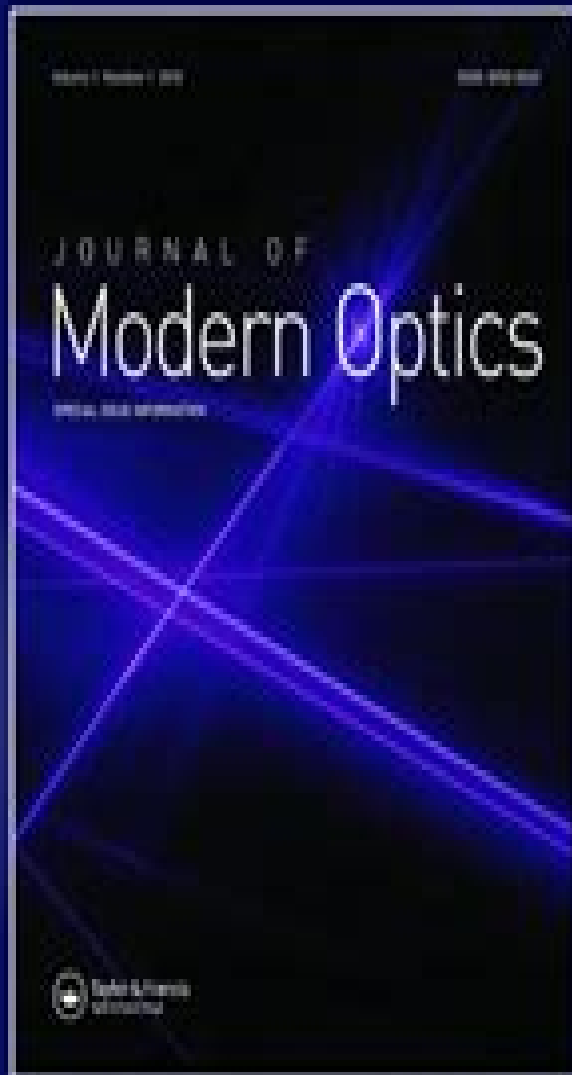




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Topics in Modern Optics K R Sarma, 2000 This Book Presents A Wide Ranging Discussion Of The Various Facets Of Optics The Basic Principles Have Been Systematically Discussed And Extensively Explained Several Applications Of Optics Have Also Been Discussed To Provide A Practical Flavour Of The Subject The Book Presents A Broad Insight Into The Subject And Would Be Extremely Useful For Students As Well As Researchers

The Framework of Modern Optics Andrey Gitin, 2024-12-12 Traditional branches of optics describe the behavior of light from different points of view geometrical wave and energetic All of them were logically united in the famous book Principles of Optics by M Born and E Wolf first published in 1969 However over the past 60 years optics has changed radically the invention of the laser led to the emergence of new branches of optics coherence optics holography optics of ultra fast laser pulses etc and mathematical tools of modern physical theories quantum mechanics electronics and microwave technology etc were applied to new presentations of traditional branches of optics At the same time in mathematical and physical theories a heuristic approach based on plausible reasoning modeling analogies dualities etc and a first principal method were developing This work unites the traditional and modern branches of optics into a single theory by using modern mathematical tools and a heuristic approach

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heterogeneous systems **Frontiers in Modern Optics** D. Faccio, J. Dudley, M. Clerici, 2016-05-17 The year 2015 was designated by the United Nations General Assembly as the Year of Light and Light based Technologies and also marks the anniversaries of a number of significant historical events related to light In 1015 Ibn Al Haytham published his book of optics in 1815 Fresnel first proposed the notion that light is actually a wave James Clerk Maxwell then firmly established this concept with his electromagnetic theory of light propagation and Einstein announced his discovery of the photoelectric effect demonstrating that light is made of photons in 1905 followed in 1915 by his general theory of relativity in which light plays a central role This book presents lectures from the International School of Physics Enrico Fermi summer school Frontiers in Modern Optics held in Varenna Italy in June and July 2014 The school attempted to give a broad and modern overview of the field of optics in a series of lectures addressing ongoing topics of research Subject areas include nonlinear optics light as an investigation tool in modern physics and detection and imaging A unique feature of the book is that each chapter has been prepared as a collaborative effort between students at the school and lecturers This approach has proved very successful and may well provide a model for the future **Modern Optics** B. D. Guenther, 1990-01-16 The most up to date treatment available on modern optics Covers classical topics and surveys the state of the art in applications including laser optics fiber optics and medical imaging The rigorous physical approach makes this text reference suitable for courses in optics physics and electrical engineering *The Theory of Modern Optical Instruments* Alexander Gleichen, 1918 **Modern Optical Instruments and Their Construction** Henry Orford, 1896 *Elements of Modern Optical Design* Donald C. O'Shea, 1985-08-14 A textbook for elementary optical design that treats lasers modulators and scanners as part of the design process Moves from the simplest concepts in optics to a basic understanding of ray tracing in optical systems the components of those systems and the process by which a design is produced Features numerous problems examples and figures

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