The Science Of Art Optical Themes In Western Art From Brunelleschi To Seurat

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Theory and Practice MIT Press
Presents nearly three hundred optical illustions along with an explanation for how each works.

Optical Science and Engineering for the 21st Century University of Virginia Press
Seen Unseen is a deep, richly illustrated, and erudite analysis of the interconnections between science and the visual arts. Martin Kemp explores the responses of artists, scientists, and their instruments, to the world--ranging from early representations of perspective, to pinhole cameras, particle accelerators and the Hubble telescope. From Leonardo, Durer, and the inventors of photography to contemporary sculptors, and from Galileo and Darwin to Stephen J. Gould, Kemp considers the way in which scientists and artists have perceived the world and responded to its patterns, and sees common structural intuitions reflected in their work.

Art in History, 600 BC - 2000 AD: Ideas in Profile Univ of California Press
Contains color and black-and-white illustrations of over three hundred optical illusions, each with brief, explanatory text.

Optical Art Sterling Publishing Company
The most important scientist of the twentieth century and the most important artist had their periods of greatest creativity almost simultaneously and in remarkably similar circumstances. This fascinating parallel biography of Albert Einstein and Pablo Picasso as young men examines their greatest creations -- Picasso's Les Demoiselles d'Avignon and Einstein's special theory of relativity. Miller shows how these breakthroughs arose not only from within their respective fields but from larger currents in the intellectual culture of the times. Ultimately, Miller shows how Einstein and Picasso, in a deep and important sense, were both working on the same problem.

Optical Deconstructions Lannoo Publishers

The Science of ArtOptical Themes in Western Art from Brunelleschi to SeuratSmriti Books

The Art and Science of the Human Body from Leonardo to Now CRC Press
A practical guide for engineers and students that covers a wide range of optical design and optical metrology topics Optical Engineering Science offers a comprehensive and authoritative review of the science of optical engineering. The book bridges the gap between the basic theoretical principles of classical optics and the practical application of optics in the commercial world. Written by a noted expert in the field, the book examines a range of practical topics that are related to optical design, optical metrology and manufacturing. The book fills a void in the literature by coving all three topics in a single volume. Optical engineering science is at the foundation of the design of commercial optical systems, such as mobile phone cameras and digital cameras as well as highly sophisticated instruments for commercial and research applications. It spans the design, manufacture and testing of space or aerospace instrumentation to the optical sensor technology for environmental monitoring. Optics engineering science has a wide variety of applications, both commercial and research. This important book: Offers a comprehensive review of the topic of optical engineering Covers topics such as optical fibers, waveguides, aspheric surfaces, Zernike polynomials, polarisation, birefringence and more Targets engineering professionals and students Filled with illustrative examples and mathematical equations Written for professional practitioners, optical engineers, optical designers, optical systems engineers and students, Optical Engineering Science offers an authoritative guide that covers the broad range of optical design and optical metrology topics and their applications.

The Art of Optical Illusions QEB Publishing
Bio-optical Modeling and Remote Sensing of Inland Waters presents the latest developments, state-of-the-art, and future perspectives of bio-optical modeling for each optically active component of inland waters, providing a broad range of applications of water quality monitoring using remote sensing. Rather than discussing optical radiometry theories, the authors explore the applications of these theories to inland aquatic environments. The book not only covers applications, but also discusses new possibilities, making the bio-optical theories operational, a concept that is of great interest to both government and private sector organizations. In addition, it addresses not only the physical theory that makes bio-optical modeling possible, but also the implementation and applications of bio-optical modeling in inland waters. Early chapters introduce the concepts of bio-optical modeling and the classification of bio-optical models and satellite capabilities both in existence and in development. Later chapters target specific optically active components (OACs) for inland waters and present the current status and future direction of bio-optical modeling for the OACs. Concluding sections provide an overview of a governance strategy for global monitoring of inland waters based on earth observation and bio-optical modeling. Presents comprehensive chapters that each target a different optically active component of inland waters Contains contributions from respected and active professionals in the field Presents applications of bio-optical modeling theories that are applicable to researchers, professionals, and government agencies

Harnessing Light Routledge
There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications. But all of these software packages share one critical flaw: you still have to design a starting solution. Continuing the bestselling tradition of the author's previous books, Lens Design, Fourth Edition is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems. Milton Laikin draws on his varied and extensive experience, ranging from innovative cinematographic and special-effects optical systems to infrared and underwater lens systems, to cover a vast range of special-purpose optical systems and their detailed design and analysis. This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems, the human eye, spectrographic systems, and diffractive systems. A new CD-ROM accompanies this edition, offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text. Filled with sage advice and completely illustrated, Lens Design, Fourth Edition supplies hands-on guidance for the initial design and final optimization for a plethora of commercial, consumer, and specialized optical systems.

The New Book of Optical Illusions Smriti Books
Available again, an influential book that offers a framework for understanding visual perception and considers fundamental questions about the brain and its functions. David Marr's posthumously published Vision (1982) influenced a generation of brain and cognitive scientists, inspiring many to enter the field. In Vision, Marr describes a general framework for understanding visual perception and touches on broader questions about how the brain and its functions can be studied and understood. Researchers from a range of brain and cognitive sciences have long valued Marr's creativity, intellectual power, and ability to integrate insights and data from neuroscience, psychology, and computation. This MIT Press edition makes Marr's influential work available to a new generation of students and scientists. In Marr's framework, the process of vision constructs a set of representations, starting from a description of the input image and culminating with a description of three-dimensional objects in the surrounding environment. A central theme, and one that has had far-reaching influence in both neuroscience and cognitive science, is the notion of different levels of analysis—in Marr's framework, the computational level, the algorithmic level, and the hardware implementation level. Now, thirty years later, the main problems that occupied Marr remain fundamental open problems in the study of perception. Vision provides inspiration for the continuing efforts to integrate knowledge from cognition and computation to understand vision and the brain.

On Vision and Modernity in the Nineteenth Century Profile Books
The Optical Unconscious is a pointed protest against the official story of modernism and against the critical tradition that attempted to define modern art according to certain sacred commandments and self-fulfilling truths. The account of modernism presented here challenges the vaunted principle of "vision itself." And it is a very different story than we have ever read, not only because its insurgent plot and characters rise from below the calm surface of the known and law-like field of modernist painting, but because the voice is unlike anything we have heard before. Just as the artists of the optical unconscious assaulted the idea of autonomy and visual mastery, Rosalind Krauss abandons the historian's voice of objective detachment and forges a new style of writing in this book: art history that insinuates diary and art theory, and that has the gait and tone of fiction. The Optical Unconscious will be deeply vexing to modernism's standard-bearers, and to readers who have accepted the foundational principles on which their aesthetic is based. Krauss also gives us the story that Alfred Barr, Meyer Shapiro, and Clement Greenberg repressed, the story of a small, disparate group of artists who defied modernism's most cherished self-descriptions, giving rise to an unruly, disruptive force that persistently haunted the field of modernism from the 1920s to the 1950s and continues to disrupt it today. In order to understand why modernism had to repress the optical unconscious, Krauss eavesdrops on Roger Fry in the salons of Bloomsbury, and spies on the toddler John Ruskin as he amuses himself with the patterns of a rug; we find her in the living room of Clement Greenberg as he complains about "smart Jewish girls with their typewriters" in the 1960s, and in colloquy with Michael Fried about Frank Stella's love of baseball. Along the way, there are also narrative encounters with Freud, Jacques Lacan, Georges Bataille, Roger Caillois, Gilles Deleuze, and Jean-François Lyotard. To embody this

optical unconscious, Krauss turns to the pages of Max Ernst's collage novels, to Marcel Duchamp's hypnotic Rotoreliefs, to Eva Hesse's luminous sculptures, and to Cy Twombly's, Andy Warhol's, and Robert Morris's scandalous decoding of Jackson Pollock's drip pictures as "Anti-Form." These artists introduced a new set of values into the field of twentieth-century art, offering ready-made images of obsessional fantasy in place of modernism's intentionality and unexamined compulsions.

Seen/unseen Oxford University Press on Demand

The kaleidoscope, the stereoscope, and other nineteenth-century optical toys analyzed as “new media” of their era, provoking anxieties similar to our own about children and screens. In the nineteenth century, the kaleidoscope, the thaumatrope, the zoetrope, the stereoscope, and other optical toys were standard accessories of a middle-class childhood, used both at home and at school. In Playful Visions, Meredith Bak argues that the optical toys of the nineteenth century were the “new media” of their era, teaching children to be discerning consumers of media—and also provoking anxieties similar to contemporary worries about children's screen time. Bak shows that optical toys—which produced visual effects ranging from a moving image to the illusion of depth—established and reinforced a new understanding of vision as an interpretive process. At the same time, the expansion of the middle class as well as education and labor reforms contributed to a new notion of childhood as a time of innocence and play. Modern media culture and the emergence of modern Western childhood are thus deeply interconnected. Drawing on extensive archival research, Bak discusses, among other things, the circulation of optical toys, and the wide visibility gained by their appearance as printed templates and textual descriptions in periodicals; expanding conceptions of literacy, which came to include visual acuity; and how optical play allowed children to exercise a sense of visual mastery. She examines optical toys alongside related visual technologies including chromolithography—which inspired both chromatic delight and chromophobia. Finally, considering the contemporary use of optical toys in advertising, education, and art, Bak analyzes the endurance of nineteenth-century visual paradigms.

Optical Engineering Science The Science of ArtOptical Themes in Western Art from Brunelleschi to Seurat

A selection of the Nature columnist's best work looks at the fertile relationship between art and science, from horror films to Galileo's moon drawings, in a thematically arranged anthology.

How Science Taught Leonardo How to Paint John Wiley & Sons

Cutting through the veil of legend, Martin Kemp offers an unparalleled portrait of this extraordinary man, asking what made Leonardo's work so astonishing and what vision drove his art and his invention. This updated edition is the first book to include two newly discovered Leonardo works, the most important discoveries in over a hundred years.

Art, Science, and Intuition from Leonardo to the Hubble Telescope Cambridge University Press

"Illustrated and with essays by Martin Kemp, Spectacular Bodies reveals a new way of seeing ourselves."--BOOK JACKET.

Vision Elsevier

For almost five hundred years the central goal of European painting was the imitation of nature. Many artist and theorists, believing that imitation must be based on scientific principles, found inspiration or guidance in two branches of optics--the geometrical science of perspective and the physical science of colour. In this pathbreaking and highly illustrated book Martin Kemp examines the major optically orientated examples of artistic theory and practice from the Renaissance to the nineteenth century.

Optical Illusions Routledge

Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years. In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi-popular level. These articles are written by the world authorities in their respective fields. This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner. This volume covers five aspects related to light. The first presents two articles, one on the history of the nature of light, and the other on the scientific achievements of Ibn-Haitham (Alhazen), who is broadly considered the father of modern optics. These are then followed by an article on ultrafast phenomena and the invisible world. The third part includes papers on specific sources of light, the discoveries of which have revolutionized optical technologies in our lifetime. They discuss the nature and the characteristics of lasers, Solid-state lighting based on the Light Emitting Diode (LED) technology, and finally modern electron optics and its relationship to the Muslim golden age in science. The book’s fourth part discusses various applications of optics and light in today's world, including biophotonics, art, optical communication, nanotechnology, the eye as an optical instrument, remote sensing, and optics in medicine. In turn, the last part focuses on quantum optics, a modern field that grew out of the interaction of light and matter. Topics addressed include atom optics, slow, stored and stationary light, optical tests of the foundation of physics, quantum mechanical properties of light fields carrying orbital angular momentum, quantum communication, and Wave-Particle dualism in action.

The Nature Book of Art and Science Firefly Books

Explanation of optical art, an artistic development in the 1960s, and how it achieved its singular effects

Art: Science & Technology Basic Books

Equip the next generation of scientists with a brand new series from Chris Ferrie, the #1 science author for kids! Rainbows are beautiful! As Red Kangaroo admires one arching across the sky, she wonders where rainbows come from—luckily, Dr. Chris has the answer! With just two ingredients and three simple steps, Red Kangaroo learns all about the science behind these wonderful, colorful sights! Chris Ferrie offers a kid-friendly introduction to light refraction and optical physics in this installment of his new Everyday Science Academy series. Written by an expert, with real-world and practical examples, young readers will have a firm grasp of scientific and mathematical concepts to help answer many of their "why" questions. Perfect for elementary-aged children and supports the Common Core Learning Standards, Next Generation Science Standards, and the Science, Technology, Engineering, and Math (STEM) standards.

The Ultimate Book of Optical Illusions Courier Corporation

On the many lives and mediums of a postwar Italian artist-adventurer Published on the occasion of her long-deserved retrospective at Muzeum Susch, this book testifies to the singular vision of Italian artist Laura Grisi (1939-2017) within contemporary art history. Born in Greece, educated in Paris and living between New York and Rome, where she died, Grisi spent long periods of her life in Africa, South America and Polynesia. This involvement with non-Western cultures indelibly marked her own search for a cosmic thinking. Although her work is often reduced to Pop art, Grisi always worked within the fundamental motif of the "journey"--from remote locations visited and documented, to the multiplicity of mediums used. Grisi embodied a stateless, nomadic female subject defying the politics of identity, the univocity of representation and the unidirectionality of time. Grisi's work spans from her avant-garde Variable Paintingsof the mid-1960s and her 1970s pioneering environmental installations dealing with fog, wind and rain, to her conceptual photo-works of the 1980s.

Japanese Optical and Geometrical Art Sterling Publishing Company Incorporated

Do things always look smaller when they are further away? Can something be clearly visible but not there at all? Is it ever possible to have a direct and true experience of reality? Are you sure? In this delightful and informative little book Phoebe McNaughton takes us on a classical journey through the history of artistic perspective, showing how the eye can be tricked and confused, the brain befuddled, and the philosopher inside all of us awakened by the nature of illusion. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.