

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

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## **Christ to Coke** - Martin Kemp 2012

Explores the origins and evolution of eleven visual iconic images still found in today's culture, including Jesus, the Coke bottle, and Einstein's famous equation,  $e = mc^2$ .

## **Leonardo Da Vinci** - Martin Kemp 2019-04

Spring 2019 marks the 500th anniversary of Leonardo da Vinci's death, and this volume by a leading da Vinci authority takes a fresh look at the master through a broadly chronological exploration of 100 of his milestones in art, science, engineering, architecture, anatomy, and more. Lavishly illustrated with stunning images, it provides unique insight into Leonardo's thinking across many fields of discipline.

*Leonardo Da Vinci* - National Gallery of Scotland 1992

## **The Poetry and Music of Science** - Tom McLeish 2019

What human qualities are needed to make scientific discoveries, and which to make great art? Many would point to 'imagination' and 'creativity' in the second case but not the first. This book challenges the assumption that doing science is in any sense less creative than art, music or fictional writing and poetry, and treads a historical and

contemporary path through common territories of the creative process. The methodological process called the 'scientific method' tells us how to test ideas when we have had them, but not how to arrive at hypotheses in the first place. Hearing the stories that scientists and artists tell about their projects reveals commonalities: the desire for a goal, the experience of frustration and failure, the incubation of the problem, moments of sudden insight, and the experience of the beautiful or sublime. Selected themes weave the practice of science and art together: visual thinking and metaphor, the transcendence of music and mathematics, the contemporary rise of the English novel and experimental science, and the role of aesthetics and desire in the creative process. Artists and scientists make salient comparisons: Defoe and Boyle; Emerson and Humboldt, Monet and Einstein, Schumann and Hadamard. The book draws on medieval philosophy at many points as the product of the last age that spent time in inner contemplation of the mystery of how something is mentally brought out from nothing. Taking the phenomenon of the rainbow as an example, the principles of creativity within constraint point to the scientific imagination as a parallel of poetry.

Art and Intention - Paisley Livingston 2005

Do the artist's intentions have anything to do with the making and appreciation of works of art? In 'Art and Intention', Paisley Livingston develops a broad and balanced perspective on perennial disputes between intentionalists and anti-intentionalists in philosophical aesthetics and critical theory.

**Leonardo Da Vinci** - Martin Kemp 2007-10-18

A masterly account of the genius of Leonardo da Vinci and his vision of the world, generously illustrated throughout, presenting a fully integrated picture of Leonardo's art, science, and thought.

*Vermeer's Camera* - Philip Steadman 2002

Explores the possibility that Vermeer used the camera obscura to achieve the photographic qualities of his paintings and provides a history of the camera obscura, how it is used, and the composition of Vermeer's paintings.

Art of Doing Science and Engineering - Richard R. Hamming 2003-12-16

Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

**The Science of Art** - Martin Kemp 1990

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.

**Occupational Outlook Handbook** - United States. Bureau of Labor Statistics 1976

*Spectacular Bodies* - Martin Kemp 2000-01-01

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

**Leonardo on Painting** - Leonardo 2001-01-01

This is a selection of Leonardo da Vinci's writings on painting. Martin Kemp and Margaret Walker have edited material not only from his so-called Treatise on Painting but also from his surviving manuscripts and from other primary sources.

*The Oxford History of Western Art* - Martin Kemp 2000

Positions works of art in illustration groups to create a visual environment and historical context to enhance understanding and appreciation.

**Structural Intuitions** - Martin Kemp 2016-03-08

"All great achievements of science must start from intuitive knowledge," wrote Albert Einstein. In Structural Intuitions, a fascinating exploration of the commonalities between two seemingly disparate realms, renowned art historian Martin Kemp applies Einstein's notion both to science and to art. Kemp argues that in both fields, work begins at the intuitive level, curiosity aroused by our recognition of patterns or order. Kemp's "structural intuitions," then, are the ways we engage fundamental perceptual and cognitive mechanisms to bring order to our observed world. Through stimulating juxtaposition, Kemp considers connections between naturally occurring patterns, cognitive processes, and artistic and scientific expression, drawing on an array of examples from the Renaissance through the present. Taking a broadly historical approach, Kemp examines forms and processes such as the geometry of Platonic solids, the dynamics of growth, and the patterns of fluids in motion, while

placing the work of contemporary artists, engineers, and scientists in dialogue with that of visionaries such as Leonardo da Vinci and D'Arcy Thompson. Richly illustrated, lucidly written, and wonderfully thought-provoking, *Structural Intuitions* is essential reading for anyone seeking insight into common ground in the arts and sciences.

**Behind the Picture** - British Academy Wolfson Research Professor  
Department of the History of Art Martin Kemp 1997-01-01

Considers the business of picture-making in the Renaissance. In particular, the text discusses the role of the artist and the functions of works of art in relation to their various kinds of audience.

**Art Theory: A Very Short Introduction** - Cynthia Freeland 2003-02-13

In today's art world many strange, even shocking, things qualify as art. In this Very Short Introduction Cynthia Freeland explains why innovation and controversy are valued in the arts, weaving together philosophy and art theory with many fascinating examples. She discusses blood, beauty, culture, money, museums, sex, and politics, clarifying contemporary and historical accounts of the nature, function, and interpretation of the arts. Freeland also propels us into the future by surveying cutting-edge web sites, alongside the latest research on the brain's role in perceiving art. This clear, provocative book engages with the big debates surrounding our responses to art and is an invaluable introduction to anyone interested in thinking about art. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

*Aesthetic Science* - Arthur P. Shimamura 2012-01-02

What do we do when we view a work of art? What does it mean to have an 'aesthetic' experience? Are such experiences purely in the eye of the beholder? This book addresses the nature of aesthetic experience from the perspectives of philosophy psychology and neuroscience.

**Mona Lisa** - Martin Kemp 2017

"The true story of the Mona Lisa - the people behind it, how Leonardo

painted it and what it meant to him, and its fortunes in the centuries since. Read this book and the world's most famous image will never look the same again."--Jacket cover page 4.

**Phenomenology of Illness** - Havi Carel 2016

Havi Carel uses phenomenology to explore how illness modifies the ill person's body, values, and world. Carel argues that illness has received little philosophical attention. 'Phenomenology of Illness' develops a phenomenological framework for illness and a systematic understanding of illness as a philosophical tool.

*Leonardo da Vinci : The Marvellous Works of Nature and Man* - Martin Kemp 2006-03-23

A masterly account of the genius of Leonardo da Vinci and his vision of the world, generously illustrated throughout, presenting a fully integrated picture of Leonardo's art, science, and thought. Widely recognized as a classic, this fully updated new edition includes a new introduction setting Leonardo's life and work in its wider historical context. - ;This masterly account of Leonardo da Vinci and his vision of the world is now widely recognized as the classic treatment of Leonardo's art, science, and thought, giving an unparalleled insight into the broadening and deepening of Leonardo's intellect and vision throughout his artistic career. Kemp, one of the world's leading authorities on Leonardo, takes us on a journey through the whole span of the great man's career, giving a fully integrated picture of his artistic, scientific, and technological achievements. Leonardo's early training in Florence provided a crucial foundation in the 'science of art', particularly perspective and anatomy. His period in the service of the Sforzas of Milan enlarged his outlook to embrace a wide range of natural sciences and mathematics, as he searched for scientific rules governing both man and the universe. It was these rules which provided the basis for his imaginative reconstruction of nature in great works such as the Last Supper, the Mona Lisa, and St John, which reveal his increasingly complex vision of man in the context of nature. And towards the end of his life, Leonardo became fascinated with the mathematics underlying the 'design of nature', behind which lay the ultimate force of the 'prime

mover', as manifested with supreme power in his Deluge drawings. Covering all areas of Leonardo's achievement, generously illustrated, and now including a new introductory chapter setting Leonardo's work in its historical context, this fully updated new edition provides an unparalleled insight into the marvellous works of this central figure in western art. - ;Masterful... his analysis of Leonardo holds great value... because it refuses to separate out the artist's diverse skills and achievements. - Art Quarterly

**Seen/unseen** - Martin Kemp 2006

"This book is not a history of art, or a history of science, or even a history of their interaction. Rather, Martin Kemp, the distinguished art historian, traces certain recurring themes in the imagery of art and science that reflect shared 'structural intuitions' about the seen and unseen worlds of nature."--BOOK JACKET.

Concerning the Spiritual in Art - Wassily Kandinsky 2012-04-20

Pioneering work by the great modernist painter, considered by many to be the father of abstract art and a leader in the movement to free art from traditional bonds. 12 illustrations.

Art in History, 600 BC - 2000 AD: Ideas in Profile - Martin Kemp 2015-01-01

Ideas in Profile: Small Introductions to Big Topics Art has always been part of history. But we often think of it as outside history. When we look at a painting by Raphael, Rembrandt or Rubens it speaks to us directly, but it's also an historical document, part of a living world. Renowned art historian Martin Kemp takes the reader on an extraordinary trip through art, from devotional works to the revolutionary techniques of the Renaissance, from the courtly Masters of the seventeenth century through to the daring avant-garde of the twentieth century and beyond. Along the way we encounter the great names of art history: Leonardo da Vinci and Michelangelo; Vermeer and Velasquez; Picasso and Pollock. We get under the skin of the many 'isms', schools, styles and epochs. We see the complex sweep of art history with its innovations, collaborations, rivalries, break-throughs and masterpieces. Above all, Kemp puts art in context; art isn't about disembodied images, art itself is history. Part of

the Ideas in Profile series, uniquely enlivened with animations and illustrations from the award winning studio Cognitive Media, Art in History is an indispensable, accessible and richly detailed guide to our culture, our history, our heritage and our art. Also available in two ebook formats. Please note that ISBN 9781782831020 is for the usual ebook format and 9781781254110 is for an enhanced edition with additional video and audio which should be used only with tablet devices that are capable of playing this additional content.

**Alan Parsons' Art & Science of Sound Recording** - Julian Colbeck 2014-09-01

(Technical Reference). More than simply the book of the award-winning DVD set, Art & Science of Sound Recording, the Book takes legendary engineer, producer, and artist Alan Parsons' approaches to sound recording to the next level. In book form, Parsons has the space to include more technical background information, more detailed diagrams, plus a complete set of course notes on each of the 24 topics, from "The Brief History of Recording" to the now-classic "Dealing with Disasters." Written with the DVD's coproducer, musician, and author Julian Colbeck, ASSR, the Book offers readers a classic "big picture" view of modern recording technology in conjunction with an almost encyclopedic list of specific techniques, processes, and equipment. For all its heft and authority authored by a man trained at London's famed Abbey Road studios in the 1970s ASSR, the Book is also written in plain English and is packed with priceless anecdotes from Alan Parsons' own career working with the Beatles, Pink Floyd, and countless others. Not just informative, but also highly entertaining and inspirational, ASSR, the Book is the perfect platform on which to build expertise in the art and science of sound recording.

THE GREAT BOOK OF OPTICAL ILLUSIONS - Al Seckel

**The Science and Art of Interviewing** - Kathleen Gerson 2020-10-23 Qualitative interviewing is among the most widely used methods in the social sciences, but it is arguably the least understood. In The Science and Art of Interviewing, Kathleen Gerson and Sarah Damaske offer clear,

theoretically informed and empirically rich strategies for conducting interview studies. They present both a rationale and guide to the science and art of in-depth interviewing to take readers through all the steps in the research process, from the initial stage of formulating a question to the final one of presenting the results. Gerson and Damaske show readers how to develop a research design for interviewing, decide on and find an appropriate sample, construct a questionnaire, conduct probing interviews, and analyze the data they collect. At each stage, they also provide practical tips about how to address the ever-present, but rarely discussed challenges that qualitative researchers routinely encounter, particularly emphasizing the relationship between conducting well-crafted research and building powerful social theories. With an engaging, accessible style, *The Science and Art of Interviewing* targets a wide range of audiences, from upper-level undergraduates and graduate methods courses to students embarking on their dissertations to seasoned researchers at all stages of their careers.

**Art in History, 600 BC - 2000 AD: Ideas in Profile** - Martin Kemp  
2015-01-01

*Ideas in Profile: Small Introductions to Big Topics* Art has always been part of history. But we often think of it as outside history. When we look at a painting by Raphael, Rembrandt or Rubens it speaks to us directly, but it's also an historical document, part of a living world. Renowned art historian Martin Kemp takes the reader on an extraordinary trip through art, from devotional works to the revolutionary techniques of the Renaissance, from the courtly Masters of the seventeenth century through to the daring avant-garde of the twentieth century and beyond. Along the way we encounter the great names of art history: Leonardo da Vinci and Michelangelo; Vermeer and Velasquez; Picasso and Pollock. We get under the skin of the many 'isms', schools, styles and epochs. We see the complex sweep of art history with its innovations, collaborations, rivalries, break-throughs and masterpieces. Above all, Kemp puts art in context; art isn't about disembodied images, art itself is history. Part of the *Ideas in Profile* series, uniquely enlivened with animations and illustrations from the award winning studio Cognitive Media, *Art in*

History is an indispensable, accessible and richly detailed guide to our culture, our history, our heritage and our art. Also available in two ebook formats. Please note that ISBN 9781782831020 is for the usual ebook format and 9781781254110 is for an enhanced edition with additional video and audio which should be used only with tablet devices that are capable of playing this additional content.

**The Art and Science of Marketing** - Grahame R. Dowling 2004

The book blends the art of marketing (implementing programs to attain and retain customers) with the science of marketing (what we know from research about markets, customer behaviour, et cetera) to provide insight for marketing managers about how to implement marketing more effectively to both create and capture the value of the offers they make to their target customers. In the process it questions the usefulness of some of the more recent marketing fads. Clearly written and presented the book is ideal for advanced and professional students of marketing, as well as marketing professionals.

**Influences** - Mary Quinlan-McGrath 2013-02-20

Today few would think of astronomy and astrology as fields related to theology. Fewer still would know that physically absorbing planetary rays was once considered to have medical and psychological effects. But this was the understanding of light radiation held by certain natural philosophers of early modern Europe, and that, argues Mary Quinlan-McGrath, was why educated people of the Renaissance commissioned artworks centered on astrological themes and practices. *Influences* is the first book to reveal how important Renaissance artworks were designed to be not only beautiful but also—perhaps even primarily—functional. From the fresco cycles at Caprarola, to the Vatican's Sala dei Pontefici, to the Villa Farnesina, these great works were commissioned to selectively capture and then transmit celestial radiation, influencing the bodies and minds of their audiences. Quinlan-McGrath examines the sophisticated logic behind these theories and practices and, along the way, sheds light on early creation theory; the relationship between astrology and natural theology; and the protochemistry, physics, and mathematics of rays. An original and intellectually stimulating study,

Influences adds a new dimension to the understanding of aesthetics among Renaissance patrons and a new meaning to the seductive powers of art.

*Visualizations* - Martin Kemp 2000

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.

*Interpreting Feyerabend* - Karim Bschr 2021-02-28

This collection of new essays interprets and critically evaluates the philosophy of Paul Feyerabend. It offers innovative historical scholarship on Feyerabend's take on topics such as realism, empiricism, mimesis, voluntarism, pluralism, materialism, and the mind-body problem, as well as certain debates in the philosophy of physics. It also considers the ways in which Feyerabend's thought can contribute to contemporary debates in science and public policy, including questions about the nature of scientific methodology, the role of science in society, citizen science, scientism, and the role of expertise in public policy. The volume will provide readers with a comprehensive overview of the topics which Feyerabend engaged with throughout his career, showing both the breadth and the depth of his thought.

*Christ to Coke* - Martin Kemp 2011-10-13

Image, branding, and logos are obsessions of our age. Iconic images dominate the media. *Christ to Coke* is the first book to look at all the main types of visual icons. It does so via eleven supreme and mega-famous examples, both historical and contemporary, to see how they arose and how they continue to function. Along the way, we encounter the often weird and wonderful ways that they become transformed in an astonishing variety of ways and contexts. How, for example, has the communist revolutionary Che become a romantic hero for middle-class teenagers? The stock image of Christ's face is the founding icon - literally, since he was the central subject of early icon painting. Some of the icons that follow are general, like the cross, the lion, and the heart-shape. Some are specific, such as the Mona Lisa, Che Guevara, and the famous photograph of the napalmed girl in Vietnam. The American flag,

the "Stars and Stripes", does not quite fit into either category. Modern icons come from commerce, led by the Coca-Cola bottle, and from science, most notably the double helix of DNA and Einstein's famous equation  $E=mc^2$ . The stories, researched using the skills of a leading visual historian, are told in a vivid and personal manner. Some are funny; some are deeply moving; some are highly improbable; some centre on popular fame; others are based on the most profound ideas in science. The diversity is extraordinary. There is no set formula, but do the images share anything in common? So famous are the images that every reader is an expert in their own right and will be entertained and challenged by the narratives that Martin Kemp skilfully weaves around them.

**The Art of Game Design** - Jesse Schell 2008-08-04

Anyone can master the fundamentals of game design - no technological expertise is necessary. *The Art of Game Design: A Book of Lenses* shows that the same basic principles of psychology that work for board games, card games and athletic games also are the keys to making top-quality videogames. Good game design happens when you view your game from many different perspectives, or lenses. While touring through the unusual territory that is game design, this book gives the reader one hundred of these lenses - one hundred sets of insightful questions to ask yourself that will help make your game better. These lenses are gathered from fields as diverse as psychology, architecture, music, visual design, film, software engineering, theme park design, mathematics, writing, puzzle design, and anthropology. Anyone who reads this book will be inspired to become a better game designer - and will understand how to do it.

*Seduced* - Marina Wallace 2007

A survey of representations of sex across cultures from ancient times to the modern day. Featuring such diverse works as Roman marbles, Japanese woodcuts, Indian manuscripts, and Renaissance and Baroque paintings, this book reveals how art with a sexual content has been collected, openly displayed, concealed or prohibited over time.

**Visions of Heaven** - Martin Kemp 2021-03

Dante Alighieri (1265-1321) is one of the greatest European writers,

whose untrammelled imaginative capacity was matched by a huge base in embracing the science of his era. His texts also paint compelling visual images. In *Visions of Heaven*, renowned scholar Martin Kemp investigates Dante's supreme vision of divine light and its implications for the visual artists who were the inheritors of Dante's vision. The whole book may be regarded as a new Paragone (comparison), the debate that began in the Renaissance about which of the arts is superior. Dante's ravishing accounts of divine light set painters the severest challenge, which took them centuries to meet. A major theme running through Dante's *Divine Comedy*, particularly in its third book, the *Paradiso*, centres on Dante's acts of seeing (conducted according to optical rules with respect to the kind of visual experience that can be accomplished on earth) and the overwhelming of Dante's earthly senses by heavenly light, which does not obey his rules of earthly optics. The repeated blinding of Dante by excessive light sets the tone for artists' portrayal of unseeable brightness.

*The Human Animal in Western Art and Science* - Martin Kemp  
2007-10-01

From the lazy, fiddling grasshopper to the sneaky Big Bad Wolf, children's stories and fables enchant us with their portrayals of animals who act like people. But the comparisons run both ways, as metaphors, stories, and images—as well as scientific theories—throughout history remind us that humans often act like animals, and that the line separating them is not as clear as we'd like to pretend. Here Martin Kemp explores a stunning range of images and ideas to demonstrate just how deeply these underappreciated links between humans and other fauna are embedded in our culture. Tracing those interconnections among art, science, and literature, Kemp leads us on a dazzling tour of Western thought, from Aristotelian physiognomy and its influence on phrenology to the Great Chain of Being and Darwinian evolution. We learn about the racist anthropology underlying a familiar Degas sculpture, see paintings of a remarkably simian Judas, and watch Mowgli, the man-child from Kipling's *The Jungle Book*, exhibit the behaviors of the beasts who raised him. Like a kaleidoscope, Kemp uses

these stories to refract, reconfigure, and echo the essential truth that the way we think about animals inevitably inflects how we think about people, and vice versa. Loaded with vivid illustrations and drawing on sources from Hesiod to La Fontaine, Leonardo to P. T. Barnum, *The Human Animal in Western Art and Science* is a fascinating, eye-opening reminder of our deep affinities with our fellow members of the animal kingdom.

*Leonardo* - Martin Kemp 2011-10-06

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.

[Living with Leonardo: Fifty Years of Sanity and Insanity in the Art World and Beyond](#) - Martin Kemp 2018-05-01

Approaching the 500th anniversary of Leonardo's death, the world-renowned da Vinci expert recounts his fifty-year journey with the work of the world's most famous artist. A personal memoir interwoven with original research, *Living with Leonardo* takes us deep inside Leonardo da Vinci scholar Martin Kemp's lifelong passion for the genius who has helped define our culture. Each chapter considers a specific work as Kemp offers insight into his encounters with academics, collectors, curators, devious dealers, auctioneers, and authors—as well as how he has grappled with legions of “Leonardo loonies,” treaded vested interests in academia and museums, and fended off fusillades of non-Leonardos. Kemp explains his thinking on the Last Supper and the Mona Lisa, retells his part in the identification of the stolen Buccleuch Madonna, and explains his involvement on the two major Leonardo discoveries of the last 100 years: *La Bella Principessa* and *Salvator Mundi*. His engaging narrative elucidates the issues surrounding attribution, the scientific analyses that support experts' interpretations, and the continuing importance of connoisseurship. Illustrated with the works being discussed, *Living with Leonardo* explores the artist's genius from every angle, including technical analysis and the pop culture works he

inspired, such as *The Da Vinci Code*, and his enduring influence 500 years after his death.

**Leonardo by Leonardo** - Martin J. Kemp 2019

*Leonardo by Leonardo* is a landmark publication on Leonardo da Vinci, the immortal Renaissance artist universally considered one of the greatest painters of all time. Published to coincide with Leonardo's 500th anniversary commemoration in 2019, and written by Martin J. Kemp, one of the world's leading authorities on Leonardo da Vinci, *Leonardo by Leonardo* presents an astonishing gallery of the master's 27 existing paintings, as well as the preparatory drawings that formed the basis of his masterpieces. Martin J. Kemp's narrative is accompanied by extensive written reflections by Leonardo, and is further highlighted by perspectives from his contemporaries. The utmost care and state-of-the-art digital capture technology has been applied to the new photography of the artworks presented in this collection. No expense has been spared to reproduce the artworks with the highest fidelity to color, tone, and surface. The quality of imaging, ultra-fine resolution printing, archival paper, and binding has produced a book like no other. The result is a power and intimacy between artist and viewer that takes us inside the artist's mind, eye and spirit. The legacy of Leonardo da Vinci is a perennial fascination. Not only did he paint what is considered by many to be the world's most famous painting, the *Mona Lisa*, but he radically changed every genre of painting - religious and secular portraiture, devotional tableaux, and drawing. Leonardo is the genius that towers over the history of Western art. The large scale and unparalleled quality of reproduction in this volume allows "the strange, living presence of his paintings" to exercise their full power and magnetism on the viewer. With a lifetime of scholarship and insight, Martin J. Kemp takes us inside the world of each masterwork: the artist's relationship to his patrons;

how and why the works were commissioned; their iconography and symbology; the experimental painting techniques he applied; stories of how the paintings survived and changed owners across the centuries; restoration and condition; and finally, the unsolved puzzles that remain to this day.

**Leonardo Da Vinci's Codex Leicester** - Martin Kemp 2019-11-13

Leonardo's greatest work of science beautifully reproduced for the 500th anniversary of his death. This edition offers a high-quality facsimile reproduction of Leonardo Da Vinci's *Codex Leicester*, a collection of his scientific writings. Named after Thomas Coke (later Earl of Leicester) who purchased it in 1719, *Codex Leicester* holds the record as the most expensive book ever when it was bought by Bill Gates in 1994. Consisting of 72 pages, it was handwritten in Italian by Leonardo using his characteristic mirror writing, and is supported by drawings and diagrams. The *Codex Leicester* is an extraordinary mixture of Leonardo's observations and theories. Topics include his explanation of why fossils can be found on mountains; the flow of water in rivers; and the luminosity of the moon which Leonardo attributed to its surface being covered by water which reflects light from the sun. The facsimile reproduction is complemented by three further volumes that include a new transcription and translation, accompanied by a paraphrase in modern language, a page-by-page commentary, and a series of interpretative essays. These four volumes together introduce important new research into the interpretation of the texts and images, on the setting of Leonardo's ideas in the context of ancient and medieval theories, and above all into the notable fortunes of the *Codex* within the sciences of astronomy, water, and the history of the earth, opening a new field of research into the impact of Leonardo as a scientist after his death.