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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index at the end of each chapters.
Nota di contenuto	From Perspective Drawing to the Eighth Dimension -- Seeing Reality in Perspective: The "Art of Optics" and the "Science of Painting" -- The Role of Perspective in the Transformation of European Culture -- Visual Differential Geometry and Beltrami's Hyperbolic Plane.- All Done by Mirrors: Symmetries, Quaternions, Spinors, and Clifford Algebras -- Artists & Gamblers on the Way to Quantum Physics -- Radices

Sommario/riassunto

Like linear perspective, complex numbers and probability are notable discoveries of the Renaissance. History has been quick to recognize the crucial impact of linear perspective on painting, but reluctant to acknowledge the importance of complex numbers and probability. Both were treated with a great deal of suspicion by the scientific establishment and overlooked for many years. It was only in the twentieth century, when quantum theory defined the notion of "complex probability amplitude", that complex numbers merged with probability and transformed the image of the physical world. From a theoretical point of view, however, the space opened to painting by linear perspective and the space opened to science by complex numbers are equally valuable and share significant characteristics. By exploring that common ground, The Art of Science will lead the reader to complement Leonardo's vision of painting as a science and to see science as an art. Its aim is to restore a visual dimension to mathematical sciences – an element dulled, if not obscured, by historians, philosophers, and scientists themselves.

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