



Mathematics in Twentieth-Century Literature and Art

Robert Tubbs

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During the twentieth century, many artists and writers turned to abstract mathematical ideas to help them realize their aesthetic ambitions. Man Ray, Marcel Duchamp, and, perhaps most famously, Piet Mondrian used principles of mathematics in their work. Was it mere coincidence, or were these artists simply following their instincts, which in turn were ruled by mathematical underpinnings, such as optimal solutions for filling a space? If math exists within visual art, can it be found within literary pursuits? In short, just what is the relationship between mathematics and the creative arts?

In this provocative, original exploration of mathematical ideas in art and literature, Robert Tubbs argues that the links are much stronger than previously imagined and exceed both coincidence and commonality of purpose. Not only does he argue that mathematical ideas guided the aesthetic visions of many twentieth-century artists and writers, Tubbs further asserts that artists and writers used math in their creative processes even though they seemed to have no affinity for mathematical thinking.

In the end, Tubbs makes the case that art can be better appreciated when the math that inspired it is better understood. An insightful tour of the great masters of the last century and an argument that challenges longheld paradigms, *Mathematics in Twentieth-Century Literature and Art* will appeal to mathematicians, humanists, and artists, as well as instructors teaching the connections among math, literature, and art.



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