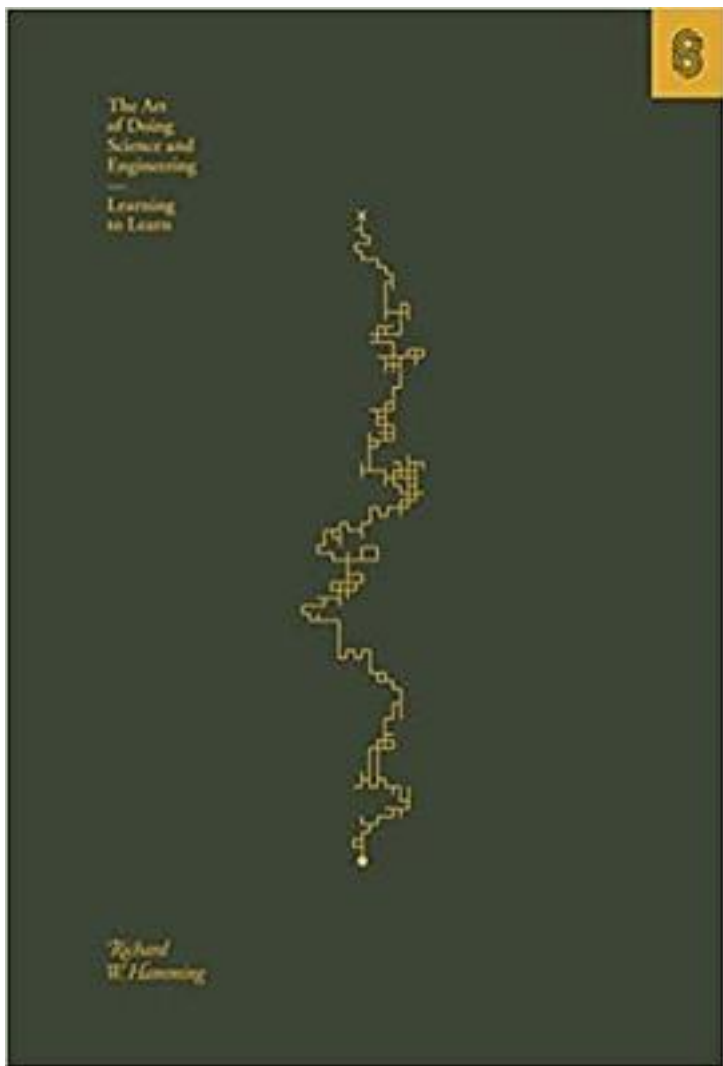


# The Art of Doing Science and Engineering



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著者:Richard W. Hamming

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A groundbreaking treatise by one of the great mathematicians of our time, who argues that highly effective thinking can be learned.

What spurs on and inspires a great idea? Can we train ourselves to think in a way that will enable world-changing understandings and insights to emerge?

Richard Hamming said we can, and first inspired a generation of engineers, scientists, and researchers in 1986 with "You and Your Research," an electrifying sermon on why some scientists do great work, why most don't, why he did, and why you should, too. The Art of Doing Science and Engineering is the full expression of what "You and Your Research" outlined. It's a book about thinking; more specifically, a style of thinking by which great ideas are conceived.

The book is filled with stories of great people performing mighty deeds--but they are not meant to simply be admired. Instead, they are to be aspired to, learned from, and surpassed. Hamming consistently returns to Shannon's information theory, Einstein's relativity, Grace Hopper's work on high-level programming, Kaiser's work on digital filters, and his own error-correcting codes. He also recounts a number of his spectacular failures as clear examples of what to avoid.

Originally published in 1996 and adapted from a course that Hamming taught at the U.S. Naval Postgraduate School, this edition includes an all-new foreword by designer, engineer, and founder of Dynamicland Bret Victor, and more than 70 redrawn graphs and charts.

The Art of Doing Science and Engineering is a reminder that a childlike capacity for learning and creativity are accessible to everyone. Hamming was as much a teacher as a scientist, and having spent a lifetime forming and confirming a theory of great people, he prepares the next generation for even greater greatness.

作者介绍:

Richard W. Hamming was a scientist and mathematician whose work inspired a generation of engineers, scientists, and researchers. He is best known for discovering mathematical formulas that allow computers to correct their own errors, a fundamental function of modems, compact disks, and satellite communications.

Born in Chicago in 1915, he provided crucial programming support as a member of the Manhattan Project. After World War II, he joined Bell Labs, where over the next 15 years he was involved in nearly all of its most prominent achievements. He later taught and lectured at the Naval Postgraduate School in Monterey, California. Throughout his career, Hamming received many awards for his work, including the Turing Award in 1968, the highest honor in computer science. In 1988, the Institute of Electrical and Electronics Engineers created the Richard W. Hamming Medal in his honor, of which he was the first recipient. He died in 1998.

目录:

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