



# **The Complete Book of Holograms: How They Work and How to Make Them (Dover Recreational Math)**

*Joseph E. Kasper, Steven A. Feller*

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"I predict that Kasper and Feller will become a standard reference on holography for students and interested laymen." — James A. Van Allen.

For most nonscientists, holograms are an intriguing — if not mesmerizing — mystery. How are these seemingly magical images created and what makes them appear to be three-dimensional? This fascinating book not only offers the answers to these and other questions about holography — it even gives step-by-step instructions so that readers can manufacture their own holograms.

Written in a lively, stimulating style, *The Complete Book of Holograms* provides a thorough, easy-to-understand explanation of the theory and science of making holograms. The physical basis of holography is introduced through a discussion of interference patterns in water waves and in light waves. Without complicated mathematics or physics, the authors explain the two models of holography — the geometric and the more complex zone-plate model — and the several different types of holograms, including transmission, reflection, phase, projection, rainbow, multiplex, and others. They explain how to copy holograms; describe special techniques and applications; and discuss potential uses for holography, including the use of holograms in movies, television, and data storage. They also present some basic setups for making holograms and show readers how to create their own — using little more than simple photographic equipment and an inexpensive laser. Two appendixes give advice on laser safety and list sources of material and further information.

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