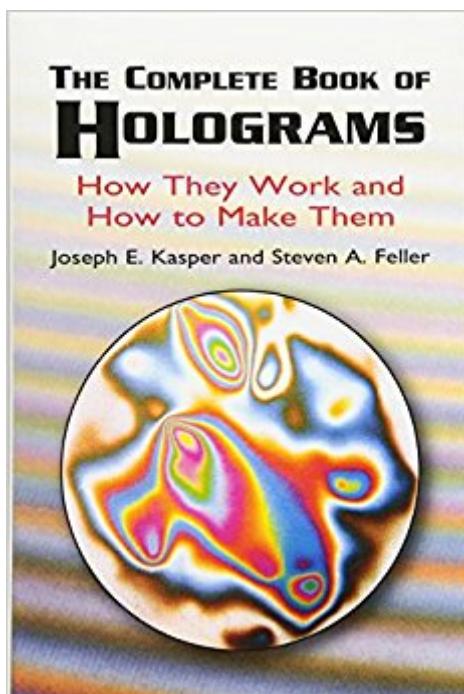


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# The Complete Book Of Holograms: How They Work And How To Make Them (Dover Recreational Math)



## Synopsis

"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.

## Book Information

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## Customer Reviews

This clear account of holography and its applications offers the novice a rigorous treatment of holographic theory and science with minimal reliance on mathematical explanation. Written in a lively, stimulating style, it explains the geometric model of holography as well as the more elaborate diffraction model, describes various types of holograms, and gives detailed instructions on how to make your own holograms and where to get the necessary materials. Also covers current and developing applications of holographic techniques in science, industry, and the arts. Includes excellent illustrations throughout, plus a list of sources for further study. --This text refers to an out of print or unavailable edition of this title.

After taking some classes from Dr. Steve Feller, I got interested in holograms. Dr. Feller does offer a class about Holography, but I could not take it due to class scheduling conflict. That being said after reading the book I was very surprised to see how simple it is to make a rudimentary hologram using standard camera film. At the end of this semester, I am going to try my hand at making one. I would encourage anyone who had an interested in learning how these are made to read this book.

Good read, covers all the difrent types of holograms in plain English.

wonderful book.

A advertised

no problems

Nice

Great!

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