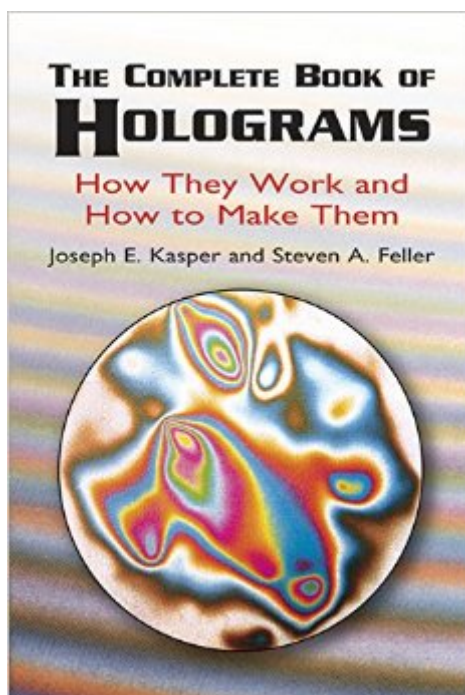


The book was found

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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in Books > Teens > Education & Reference > Science & Technology > Physics #41 in Books > Science & Math > Mathematics > Geometry & Topology > Analytic Geometry

Customer Reviews

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.

This is one of the best hologram books I've ever had the privilege of reading. It has everything you'd want to know about holograms and many spectacular visual effects to look at. I recommend this book to anyone who enjoys visual mastery.

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

wonderful book.

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The Complete Book of Holograms: How They Work and How to Make Them (Dover Recreational Math) The Complete Book of Holograms: How They Work and How to Make Them A Tear And A Smile: "If you love somebody, let them go, for if they return, they were always yours. If they don't, they never were." The Big Book of Real Helicopters "How They Work * What They Do * Where They Fly" (Big Treasure Books) What Is the Name of This Book?: The Riddle of Dracula and Other Logical Puzzles (Dover Recreational Math) My Best Mathematical and Logic Puzzles (Dover Recreational Math) Leonardo's Mirror and Other Puzzles (Dover Recreational Math) The Moscow Puzzles: 359 Mathematical Recreations (Dover Recreational Math) Tangrams: 330 Puzzles (Dover Recreational Math) Reincarnation and Karma: Why They Make Sense and How They Work Jeff Herman's Guide to Book Publishers, Editors and Literary Agents: Who They Are, What They Want, How to Win Them Over (Jeff Herman's Guide to Book Editors, Publishers, and Literary Agents) Discover Texas Dinosaurs: Where They Lived, How They Lived, and the Scientists Who Study Them How Dogs Think: What the World Looks Like to Them and Why They Act the Way They Do Understanding Girls with ADHD, Updated and Revised: How They Feel and Why They Do What They Do The Common Core Mathematics Companion: The Standards Decoded, Grades K-2: What They Say, What They Mean, How to Teach Them The Common Core Companion: The Standards Decoded, Grades 9-12: What They Say, What They Mean, How to Teach Them (Corwin Literacy)

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