

SHOEBOX HOLOGRAPHY



A Step-By-Step Guide To
Making Holograms Using Inexpensive
Semiconductor Diode Lasers



by Frank DeFreitas, Alan Rhody,
and Steve Michael



Shoebox Holography A Stepbystep Guide To Making Holograms Using Inexpensive Semiconductor Diode Lasers

Martin J. Richardson, John D. Wiltshire



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Shoebox Holography Frank DeFreitas, Alan Rhody, Stephen W. Michael, 2000 Shoebox Holography was developed with the aid of high school students It describes in detail how to make a hologram using a simple inexpensive laser pointer The book is intended as a science project for beginners More serious students can buy the Holography Handbook which describes how to create a home studio for making holograms Shoebox Holography has been used by numerous high schools as well as amateurs who are just getting started making holograms

The Complete Book of Holograms Joseph E. Kasper, Steven A. Feller, 2012-07-04 Clear thorough account without complicated mathematics explains geometric and zone plate holography and the different types of holograms along with step by step instructions for making holograms 116 illustrations

Holograms Sean Johnston, 2016 Holograms have been in the public eye for over a half century but their influences have deeper cultural roots No other visual experience is quite like interacting with holograms no other cultural product melds the technological sublime with magic and optimism in quite the same way As holograms have evolved they have left their audiences alternately fascinated bemused inspired or indifferent From expressions of high science to countercultural art to consumer security holograms have represented modernity magic and materialism Their most pervasive impact has been to galvanise hopeful technological dreams Engineers artists hippies and hobbyists have played with and dreamed about holograms This book explores how holograms found a place in distinct cultural settings It is aimed at readers attracted to pop culture visual studies and cultural history scholars concerned with media history fine art and material studies and most of all cross disciplinary audiences intrigued about how this ubiquitous but still mysterious visual medium grew up in our midst and became entangled in our culture This book explores the technical attractions and cultural uses of the hologram how they were shaped by what came before them and how they have matured to shape our notional futures Today holograms are in our pockets as identity documents and in our minds as gaming fantasies and faux hologram performers Why aren't they more often in front of our eyes

Whole Earth, 1999 **Forthcoming Books** Rose Arny, 2000-06 [Children's Books in Print](#) R R Bowker Publishing, Bowker, 1999-12 [Holography Handbook](#) Fred Unterseher, Jeannene Hansen, Bob

Schlesinger, 1993-01-01 Recommended by Scientific American Booklist American Library Association Library Journal New Scientist and Home Electronics Entertainment this practical manual emphasizes a simple and easy method of creating three dimensional laser photographs It includes step by step instructions and identifies elementary equipment and supplies

Graphic Arts **Homemade Holograms** John Iovine, 1990 Holography the recording of three dimensional images using a laser light source is a young and rapidly growing science that can offer you the opportunity to greatly widen your creative horizons Even if you have little or no laser experience Homemade Holograms will give you guidance you need to create low cost holograms using a small isolation table you build yourself

The Hologram Martin J. Richardson, John D. Wiltshire, 2017-09-22 The practical and comprehensive guide to the creation and application of holograms Written by Martin

Richardson an acclaimed leader and pioneer in the field and John Wiltshire The Hologram Principles and Techniques is an important book that explores the various types of hologram in their multiple forms and explains how to create and apply the technology The authors offer an insightful overview of the currently available recording materials chemical formulas and laser technology that includes the history of phase imaging and laser science Accessible and comprehensive the text contains a step by step guide to the production of holograms In addition The Hologram outlines the most common problems encountered in producing satisfactory images in the laboratory as well as dealing with the wide range of optical and chemical techniques used in commercial holography The Hologram is a well designed instructive tool involving three distinct disciplines physics chemistry and graphic arts This vital resource offers a guide to the development and understanding of the recording of materials optics and processing chemistry in holography and Discusses the pros and cons of the currently available recording materials Provides tutorials on the types of lasers required and optical systems as well as diffraction theory and wave front reconstruction Details the chemical formulations for processing techniques Researchers and technicians working in academia and those employed in commercial laboratories on the production of holograms as well as students of the sciences will find The Hologram to be a comprehensive and effective resource *Holography Handbook;*

Making Holograms the Easy Way Fred Unterseher,1982 **The Hologram** Martin Richardson,John David Wiltshire,2017 The practical and comprehensive guide to the creation and application of holograms Written by Martin J Richardson an acclaimed leader and pioneer in the field and John D Wiltshire The Hologram Principles and Techniques is an important book that explores the various types of hologram in their multiple forms and explains how to create and apply the technology The authors offer an insightful overview of the currently available recording materials chemical formulas and laser technology that includes the history of phase imaging and laser science Accessible and comprehensive the text contains a step by step guide to the production of holograms In addition The Hologram outlines the most common problems encountered in producing satisfactory images in the laboratory as well as dealing with the wide range of optical and chemical techniques used in commercial holography The Hologram is a well designed instructive tool involving three distinct disciplines physics chemistry and graphic arts This vital resource offers a guide to the development and understanding of the recording of materials optics and processing chemistry in holography and Discusses the pros and cons of the currently available recording materials Provides tutorials on the types of lasers required and optical systems as well as diffraction theory and wave front reconstruction Details the chemical formulations for processing techniques Researchers and technicians working in academia and those employed in commercial laboratories on the production of holograms as well as students of the sciences will find The Hologram to be a comprehensive and effective resource **Holography Projects for the Evil Genius** Gavin Harper,2010-06-21 Take Your Imagination to Another Dimension This wickedly inventive guide explores the art and science of holography and shows you how to create your own intriguing holograms using inexpensive materials Holography Projects

for the Evil Genius explains the tools and techniques you need to know to represent three dimensions on a flat two dimensional plane Using easy to find components and equipment this do it yourself book presents a wide variety of holography projects including science fair ideas that are guaranteed to impress You ll find detailed guidelines and parameters as well as discussions of the theory behind the practice Holography Projects for the Evil Genius Features step by step instructions and helpful illustrations for each project Allows you to customize your projects Includes details on the scientific principles behind the projects Removes the frustration factor all required parts are listed along with sources Enlightening coverage of The history of holography Human vision basics Practical optics How to bend and distort laser light to form a hologram Holographic chemistry Setting up your holography workshop Working with lasers glass plates and film Basic to advanced holographic setups Advanced holographic chemical preparations Computer generated holography Electronic circuits for holographers The Roadside Guide to Bike Repairs Dennis Coello,Fred Unterseher,Bob Schlesinger,Jeannene Hansen,2010-01-01 *Holography* Gerhard K. Ackermann,Jürgen Eichler,2008-07-11 From fundamentals to advanced experiments and applications this book explains how holography works It guides students from simple optics to advanced topics in holography following a practical approach using real world materials This proven university textbook contains exercises plus solutions as well as instructions for more than 20 experiments **Lasers and Holograms** John Griffiths,1986 **Guide to Practical Holography** Chris Outwater,Eric van Hamersveld,1974
Holography (Misc. IF) ,1997

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