



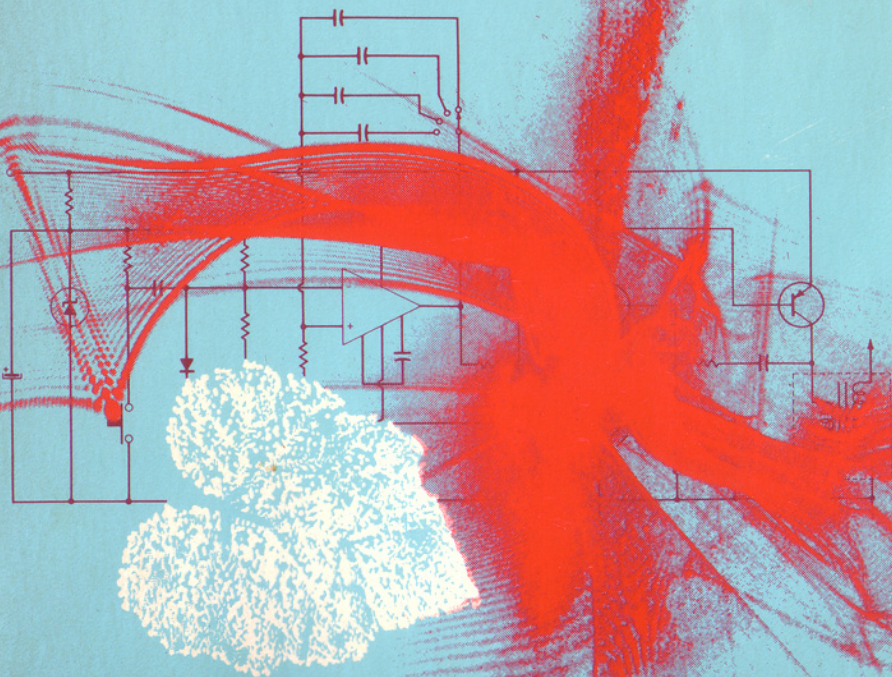
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PUBLICATION

21125

PROJECTS IN SIGHT, SOUND & SENSATION

BY MITCHELL WAITE



TWENTY

DEC 1 1975

Projects in Sight, Sound, and Sensation

by

Mitchell Waite

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HOWARD W. SAMS & CO., INC.
THE BOBBS-MERRILL CO., INC.
INDIANAPOLIS • KANSAS CITY • NEW YORK

OCT 17 1975

FIRST EDITION
FIRST PRINTING—1974

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International Standard Book Number: 0-672-21125-4
Library of Congress Catalog Card Number: 74-15452

Preface

This is a book of creative electronic construction projects, a type rarely found in hobbyist literature. The subjects are of a contemporary nature and deal with electronics in an exciting and novel manner.

In all there are seven projects, ranging in complexity from a Kirlian Camera to a seven-board Syntheshape Oscilloscope Art Generator. Also, there is a Muscle-Wave Biofeedback Monitor for practicing deep muscle relaxation and a digital ESP Machine for giving a scientifically controlled ESP test. For quick and error-free construction, modern printed-circuit techniques have been used and reproducible patterns are included for each project. State-of-the-art circuit components and designs have been used throughout the book.

These projects can serve as a fascinating branching-out point in everyday electronics. Some are inspiring; others have applications that go far beyond the practical. Many of the projects in this book have been made possible by creative people with talents in fields quite removed from one another: art, engineering, writing, music, education, and so on. This book is a synthesis of ideas and reactions, and everyone who knew of it, in one way or another, contributed to it.

The five main points of this book are:

1. All construction projects are *hobbyist compatible*. Archer, Callectro, Calrad, and HEP product lines may be used for most parts.
2. Board patterns are *universal*. They will accept almost any size component. The patterns are repeated at the back of the book. These can be easily removed and used to prepare your boards.
3. Resistor and capacitor values are flexible; almost any value within 20% of that given may be substituted.

4. Parts-placement layouts are given to aid in the assembly of the circuits.
5. Step-by-step instructions for making printed-circuit boards in less than 30 minutes by *photofabrication* are given.

I wish to thank Don Martin and Jim Copening for the unique opportunities they made possible, Bob Porter for his inspiration, and Larry Brown for his advanced circuit design in Chapter 4. My sincere appreciation goes out to Bruce Brower, who stood through long hours in photographing and debating certain designs and techniques, and of course to Kathy Rucker and Jacquelyn Fink, who helped type and prepare the final manuscript. Finally, I must express my deep gratitude to that one person behind any sincere accomplishment, dear Mom. Thanks.

MITCHELL WAITE

To all space cowboys

Kits containing predrilled circuit boards, components, hardware, and enclosures are available from:

Circuit Craft Corporation
Box 38
San Rafael, CA 94901

A catalog listing prices and kit contents will be sent on request.

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