# THE ELECTRONIC EXPERIMENTER'S MANUAL

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ZIFF-DAVIS PUBLISHING COMPANY
NEW YORK

*Library of Congress Catalog Card Number* 59-15254

Manufactured in the United States of America

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# INTRODUCTION

ELECTRONICS is unique among the sciences in that the beginner with simple hand tools and nothing more than a table top for a laboratory can construct and operate electronic equipment that is as modern as guided missiles. The builder does not have to understand the complex physical and electrical principles behind the device he builds. He can have the pleasure of putting the unit together and seeing it operate with little or no understanding of electronics.

There are many magazines that provide circuit and construction details for many projects. However, these monthly publications cannot carry in each issue the basic construction techniques that the beginner must learn.

This is the gap that this book is intended to fill. Using this book as a guide, the beginner can start out with confidence on his construction project.

Much of the material used in the preparation of this book came from pages of *Popular Electronics*. In the past five years, this magazine has published a great many articles dealing with various phases of electronic construction. The author has used many of these articles as a basis on which to build this book. For this reason, I would like to acknowledge the help of the editors of *Popular Electronics*.

Particular thanks are due to Lou Garner, whose excellent articles on printed circuits and electronic components formed the foundation for a number of chapters in the book, and to Oliver Read and James Fahnestock for their comments and criticisms.

The author would also like to extend his appreciation to Barbara Hearst for her typing of the manuscript and copy editing. And, to his wife for her patience and understanding as well as for her helpful suggestions and comments.

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