

# AERONAUTIC RADIO

*A MANUAL FOR OPERATORS, PILOTS,  
RADIO MECHANICS*

*By*

MYRON F. EDDY

LIEUTENANT, U. S. NAVY, RETIRED; CHIEF INSTRUCTOR IN  
AIRCRAFT RADIO AT STEWART TECHNICAL SCHOOL; MEMBER,  
INSTITUTE OF RADIO ENGINEERS

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## PREFACE

Radio has become part and parcel of aeronautics. Many pilots and ground men are now required to hold radio operators' licenses. Aeronautic radio offers splendid opportunities for interesting and worthwhile employment.

"Aeronautic Radio" is for all persons interested in any phase of the subject—students, mechanics, operators, pilots, and air transport operations executives. All should be benefited by familiarity with the contents of the volume.

In preparing this manual the author has been guided throughout by two considerations: (1) the requirements of the Federal Communications Commission as to aviation radio operators' licenses and the regulations of the Civil Aeronautics Authority as to radio in aeronautics, especially its use by pilots, both commercial and private; and (2) the actual approved usage of existing aeronautic radio equipment for both communication and special purposes, such as course guidance and instrument landing.

The first eleven chapters, carefully studied, should prepare the average person to pass the theoretical part of the examination for an aviation radio operator's license. The next five chapters explain the special applications of radio to aeronautics. Those thoroughly covering the book should be well prepared to acquire quickly skill in the operation of radio equipment and to understand readily manufacturers' instructions for the installation and maintenance of apparatus.

Only by drawing on the knowledge of many specialists identified with aeronautic radio in one way or another has it been possible to prepare a book presenting a complete picture of this field in aspects both of manufacture and operation. Fortunately "all hands" have given unstinted help in supplying essential information. For their assistance I am deeply grateful. Names of the companies follow:

Aero Digest, Aeronautical Radio Company, Aeronautical Radio, Inc., Aerovoice, Inc., Air Associates, Inc., Air Radio,

Air-Track Mfg. Corp., American Airlines, Aviation, Bendix Radio Corp., Boeing School of Aeronautics, Breeze Corporation, Bureau of Air Commerce, Civil Aeronautics Authority, Dallas Aviation School and Air College, Eclipse Aviation, Fairchild Aviation Corp., Federal Communications Commission, Lear Radio Developments, Inc., International Telephone Development Co., Inc., Parks Air College, Inc., Pioneer Gen-E-Motor Corp., The Prest-O-Lite Battery Co., Inc., Radio Navigational Instrument Corp., Radio Receptor Co., Radio Corporation of America Manufacturing Co., Inc., Titeflex Metal Hose Co., Western Electric Co., Willard Storage Battery Co.

I wish also to make special acknowledgment of the help of Major C. R. Johnson, United States Army, whose strict criticism has set a high standard of aspiration in preparation of the book.

MYRON F. EDDY

March, 1939

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