

RADIOTRON DESIGNER'S HANDBOOK

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RCA VICTOR, AND RADIOTRON ARE REGISTERED TRADEMARKS OF
THE RADIO CORPORATION OF AMERICA.

RADIOTRON DESIGNER'S HANDBOOK

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PREFACE

This book has been written as a comprehensive, self-explanatory reference handbook for the benefit of all who have an interest in the design and application of radio receivers or audio amplifiers. Everything outside this field—television, radio transmission, radar, industrial electronics, test equipment and so on—has been excluded to limit the book to a reasonable size.

An effort has been made to produce a handbook which, in its own sphere, is as self-contained as possible. Extensive references to other sources of information have been included for the reader who might require additional detail.

The success of the previous edition, of which over 280,000 copies have been sold throughout the world, encouraged Amalgamated Wireless Valve Company Pty. Ltd., to undertake the compilation of the present up-to-date edition which is more complete, great pains having been taken to fill in many of the gaps in the data published hitherto. This has involved a considerable amount of both experimental and analytical work by the editor and by engineers assisting in the project. Some original work, previously unpublished, has been included.

Although the various chapters have been written by individual authors, all are truly the result of team work, each having been carefully and critically examined by several other engineers specializing in that particular field. In this way the accuracy of mathematical calculations and of individual statements was checked and re-checked to ensure that the reader would not be misinformed.

I wish to express my grateful thanks to Mr. R. Lambie, Manager, Mr. D. M. Sutherland, Works Manager, and to the following collaborating engineers—

J. E. Bailey, Dr. W. G. Baker, D. Barnett, J. D. G. Barrett, Dr. G. Builder, N. V. C. Cansick, W. N. Christiansen, Dr. E. R. Dalziel, K. G. Dean, H. L. Downing, J. Gilchrist, I. C. Hansen, R. Herbert, F. Holloway, I. Hood, D. G. Lindsay, W. S. McGuire, E. J. Packer, J. Pritchard, R. J. Rawlings, B. Sandel, J. Stacey, R. D. Stewart, J. E. Telfer, R. Vine, E. Watkinson.

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F. LANGFORD-SMITH

Amalgamated Wireless Valve Company Pty. Ltd.

NOTES

References to valve types are to the prototype (e.g. 6J7) and include all equivalent types (e.g. 6J7-G, 6J7-GT etc.) unless otherwise indicated.

If any errors are noted, please write to the Editor, Radiotron Designer's Handbook, Amalgamated Wireless Valve Co. Pty. Ltd., 47 York Street, Sydney, Australia.

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Reference numbers are given either in the titles or in the text. Lists of references giving authors' names and details of articles are given at the end of each chapter.

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Other acknowledgements are given in the titles.

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Aerovox Research Worker, Vol. 11, Nos. 1 and 2, January-February 1939, Figs. 5 and 6. Published by permission of Aerovox Corporation. Tables 38. 43, 44. Charts 38. 1, 2.

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American Standards Association "American Standard for Noise Measurement" Z24.22-1942. Figs. 19. 7, 8.

Australian Radio Technical Services and Patents Co. Pty. Ltd.—Technical Bulletins. Figs. 15. 22, 23, 24, 25, 26, 27, 43. 31. 3, 4, 5.

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Electrical and Musical Industries. Fig. 17. 25.

Jensen Manufacturing Company—Jensen Technical Monograph No. 3. Figs. 14. 2, 3, 4, 5.

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National Bureau of Standards Circular C74, Fig. 208 redrawn and published by permission of National Bureau of Standards. Fig. 10. 3.

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Note:—References in the text to R.M.A. Standards should be taken as having been issued by RTMA.

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