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stance, determining the exact nature of a pump or turbine runner or of pure hydraulic investigations. On the other hand, such vane shapes are developed by means of geometric constructions, which are the key to the difference between theoretical and practical design.

This book is suitable for senior and graduate engineering students, as well as engineers who are engaged in design research on turbomachinery.

PRACTICAL ELECTRICAL WIRING (1947)
H. P. Richter, 574 pp, 5 1/2 x 8 1/2, cloth, \$4.50
McGraw-Hill Book Co, 330 W 42nd St
New York 18, N. Y.

Simple enough for the beginner, the book is also complete enough for experienced electricians. The contents are presented in such a way that the reader can learn both the how and why. This method helps the student solve problems that arise in practice.

Written in three parts that deal with fundamentals, terminology, basic principles and practical theory (2) wiring of houses and farms (3) actual wiring of stores, factories, schools and similar structures. Electricians and apprentices will find this book useful.

HANDBOOK ON HYDRAULIC OILS (1947)
48 pp, illust, paper, free. E. F. Hughes
Co, 303 W Lehigh Ave, Philadelphia 19, Pa.

Divided into six chapters, this book deals with hydraulic-oil specifications, their value and weakness; important properties not in specifications; adding treatment of hydraulic oils; trouble shooting; qualities that a good oil must possess; and hydro-drive hydraulic oils. It is written in a simple, practical style so mechanics readily understand.

STANDARD WELDING SYMBOLS AND RULES FOR THEIR USE. 67 pp, 5 1/2 x 9, numerous illus, paper, \$5.00. American Welding Society, 33 W 39th St, New York 18, N. Y.

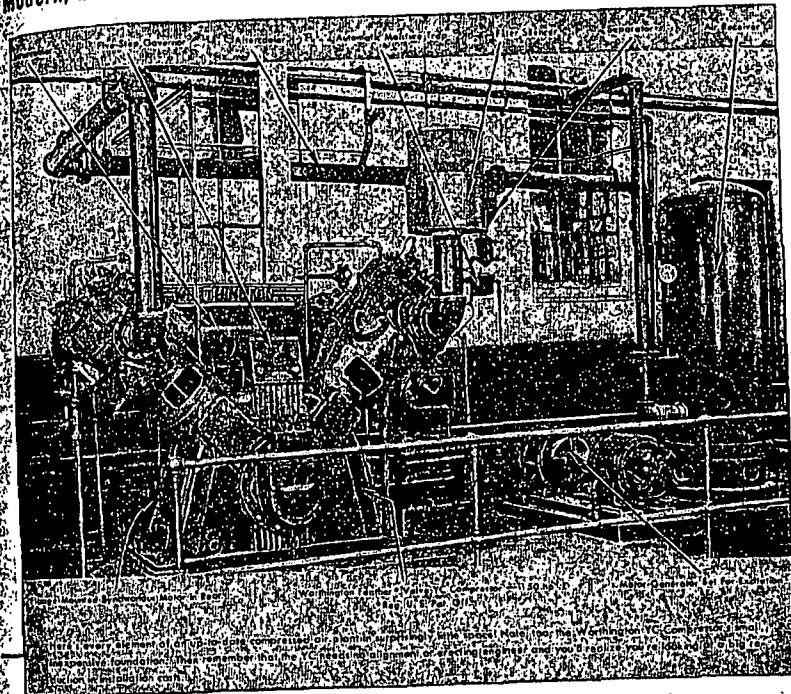
In establishing the 1947 Standard Welding Symbols the committee on symbols carefully considered the needs of arc welding equipment and adopted rules to provide for the needs of manufacturing designers and shop men. The rules have been expanded to cover all types of welding and clarify confusing nomenclature. Clear-cut illustrations explain how the symbols are applied.

COLLOID SCIENCE (1947). A symposium by E. K. Rideal, A. E. Alexander, D. D. E. P. Johnson, F. Eirich, R. F. Tuckwell, Schulman, M. P. Perutz, G. S. Acland, B. M. Sutherland and R. R. Smith. 208 pp, 5 1/2 x 8 1/2, cloth, \$6. Chemical Publishing Co, Inc, Brooklyn, N. Y.

This highly technical text is a symposium taken from a course of lectures in colloid science at Cambridge University, Cambridge, England, under the auspices of the Royal Institute of Chemistry. It discusses such subjects as surface chemistry,

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