This amounts to a basic bibliography with running comments, and should be very useful.

The Chapter headings are:

Part I

Traditional Logic. Symbolic Logic I--The Propositional Calculus. Symbolic Logic II--The Restricted Calculus of Predicates. Further Development of Symbolic Logic.

Part II

The Critical Movement in Mathematics in the Nineteenth Century. The Logistic Identification of Mathematics with Logic. Formalized Mathematics and Metamathematics. Gödel's Theorems on the Inherent Limitations of Formal Systems, Intuitionism, Recursive Arithmetic, The Axiomatic Theory of Sets.

Part III

The Epistomological Status of Mathematics, The Application of Mathematics to the Natural World, Logic and the Activity of Thinking.

Appendix. Developments since 1939 in Foundations.

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Representations of Groups with special consideration for the needs of Modern Physics, by H. Boerner. J. Wiley and Sons Publ. Inc., New York, 1963. xii + 325 pages.

This book is a translation, with only minor changes from the German edition [Grundlehren der Math. Wiss. Bd 74 Berlin-Gottingen-Heidelberg, Springer-Verlag, 1955]. It is a self-contained treatment of representations of the classical groups written primarily for physicists. There are preliminary chapters on vector spaces and matrices, groups and the general theory of group representations. The remaining chapter headings are: Representations of the symmetric group; Representations of the full linear, unimodular and unitary groups; Characters of the linear and permutation groups; Characters and single-valued representations of the rotation group; Spin representations, infinitesimal ring, ordinary rotation group; The Lorentz group.

The original German edition was reviewed in Math. Reviews 17(1956), 710 and in Amer. Math. Soc. Bulletin 63 (1957), 204.

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