BRIEF MENTION

An introductiou to probability theory and its applications. Vol. 1. 2d ed. By W. Feller. New York, Wiley, 1957. 15+461 pp. $10.75.

The first edition was reviewed in this Bulletin, vol. 57 (1951) p. 156. The present edition retains the same general plan and spirit as the first, but changes appear on almost every page. Many new examples and exercises have been added, references have been brought up to date, statements and proofs clarified or simplified, and there are many rearrangements. A new chapter treating fluctuations in coin tossing and the arc sine law by elementary combinatorial methods has been added early in the book. The total length of the book has been increased by about 40 pages.

Algebraic geometry and topology. A symposium in honor of S. Lefschetz. Ed. by R. H. Fox, D. C. Spencer, and A. W. Tucker. Princeton University Press, 1957. 8+399 pp. $7.50.

This volume includes appreciations of the work of Lefschetz by W. V. D. Hodge and N. E. Steenrod, a bibliography of his publications, and twenty-three research papers, most of which reflect current outgrowths of Lefschetz's work, by A. Andreotti, E. Calabi, H. Cartan, S. S. Chern, W. L. Chow, G. F. D. Duff, K. Kodaira and D. C. Spencer, M. Rosenlicht, F. Severi, E. Snapper, A. Weil, O. Zariski, J. Adem, C. H. Dowker, R. H. Fox, F. B. Fuller, H. Hopf, J. Milnor, P. A. Smith, E. H. Spanier and J. H. C. Whitehead, H. Uehara and W. S. Massey, R. L. Wilder, and S. Wylie.

Linear algebras. Publication 502, National Academy of Sciences, National Research Council, Washington, 1957. 5+60 pp. $1.50 (paperbound).

Report of a conference held at Ram's head Inn on Shelter Island, Long Island, N. Y., in June 1956, including short papers by I. Kaplansky, R. Brauer, N. Jacobson, E. Kleinfeld, G. B. Seligman, R. Baer, and D. Buchsbaum.

Topologie. Vol. 1. By C. Kuratowski. 4th ed. Warszawa, Panstwowe Wydawnictwo Naukowe, 1958. 13+494 pp.

This new edition of Kuratowski's famous treatise is essentially the same as the 2nd and 3rd editions except for the important addition of a 42 page appendix, which gives a concise and self-contained account of certain notions and theorems that were omitted from the earlier editions. These include uncountable Cartesian products, completely regular spaces, Tychonoff's theorem, properties of bicompact

spaces, Stone-Čech bicompactification, the Stone representation theorem for Boolean algebras (here called Boolean rings, although required to contain a unit element), locally finite families, the Smirnoff metrization theorem, uniform spaces, proximity spaces, and almost metric spaces. In addition there are short notes by A. Mostowski outlining applications of topology to mathematical logic, and by R. Sikorski on applications of topology to functional analysis. These two notes do not include proofs but furnish a guide to certain recent literature.

Hypothèse du continu. By W. Sierpiński. 2d ed. New York, Chelsea, 1956. 17+274 pp. $4.95.

This is a photographic reprint of the original edition of 1934, reviewed in this Bulletin, vol. 42 (1936) p. 301. An appendix has been added, consisting of reprints of sixteen papers by the author dealing with the subject, published subsequently in various journals.

Set theory. By F. Hausdorff. Trans. by John R. Aumann et al. New York, Chelsea, 1957. 352 pp. $6.00.

This is a translation into English from the third (1937) edition of Hausdorff's *Mengenlehre.*

Probability, statistics and truth. By R. von Mises. 2d rev. English ed. prepared by Hilda Geiringer. New York, Macmillan, 1957. 14+244 pp. $5.00.

This is a translation of the third German edition, of 1951.

Topological groups. By L. Pontrjagin. 5th printing. Princeton University Press, 1958. 9+299 pp. $2.75 (paperback).

This is a paperback reprint of the original edition of 1939, reviewed in this Bulletin vol. 46, p. 382.