

III (continuation) global problems; IV-V differential equations in the analytic field; the theorem of Fuchs.

Volume III, Part II. VI Partial differential equations of first order; VII-VIII general properties of partial differential equations, characteristics; IX hyperbolic equations of second order; X harmonic functions, newtonian potentials, elliptic equations of second order; XI parabolic differential equations of second order; XII integral equations; XIII calculus of variations.

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Modern Operational Calculus with applications in technical mathematics, by N. W. McLachlan. Revised edition. Dover Publications Inc., New York, 1962. xiv + 218 pages. \$1.75. (Canadian markup is 15 per cent.)

For a detailed review see *Mathematical Reviews*, vol. 9 (1948) page 584. This is called a revised edition, but the only significant revision is in the price, which used to be \$5. Mathematicians using the latest edition of *Operational Mathematics* by Churchill will probably agree that Churchill's book is just as well written, is more complete, and is typographically more attractive, but that McLachlan's book is a superb source of exercises and their solutions. Caution: the p -multiplied Laplace transform is used throughout.

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Stability of Motion, by N. N. Krasovskii. Translated from the (1959) Russian Ed. by J. L. Brenner. Stanford University Press, 1963. \$6. U. S.

Krasovskii's well-known monograph on the Stability of Motion has now been translated from Russian into English. The author gives essentially an exposition of Lyapunov's "second method," but does not restrict himself to the original theory. Many modern generalizations are presented and techniques for applications are given to practical cases. In the present days of servomechanisms and control systems, this is of intense practical interest.

The treatment is basically theoretical and complete proofs of the lemmas and theorems are usually (with very few exceptions) supplied. The author is one of the major original contributors on dynamic stability theory. His style is clear, and the translation is easily readable, something which is not always the case in translations from Russian into English owing to the substantially different grammatical structures of the two languages.

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