



# Mathematical Analysis: Differentiation and Integration (Pure & Applied Mathematics Monograph)

*I.G. Aramanovich, R. S. Guter, L.A. Lyusternik*

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## **Mathematical Analysis: Differentiation and Integration (Pure & Applied Mathematics Monograph)**

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Mathematical Analysis: Differentiation and Integration is devoted to two basic operations of mathematical analysis, differentiation and integration. The problems directly connected with the operations of differentiation and integration of functions of one or several variables are discussed, together with elementary generalizations of these operations.

This volume is comprised of seven chapters and begins by considering the differentiation of functions of one variable and of  $n$  variables, paying particular attention to derivatives and differentials as well as their properties. The next chapter deals with composite and implicit functions of  $n$  variables in connection with differentiation, along with the representation of functions in the form of superpositions. Subsequent chapters offer detailed accounts of systems of functions and curvilinear coordinates in a plane and in space; the integration of functions; and improper integrals. The final chapter examines the transformation of differential and integral expressions.

This book will be a useful resource for mathematicians and mathematics students.

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