



Introduction to the Theory and Application of the Laplace Transformation

By G. Doetsch

Springer Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 244x170x18 mm. This item is printed on demand - Print on Demand Neuware - In anglo-american literature there exist numerous books, devoted to the application of the Laplace transformation in technical domains such as electrotechnics, mechanics etc. Chiefly, they treat problems which, in mathematical language, are governed by ordinary and partial differential equations, in various physically dressed forms. The theoretical foundations of the Laplace transformation are presented usually only in a simplified manner, presuming special properties with respect to the transformed functions, which allow easy proofs. By contrast, the present book intends principally to develop those parts of the theory of the Laplace transformation, which are needed by mathematicians, physicists and engineers in their daily routine work, but in complete generality and with detailed, exact proofs. The applications to other mathematical domains and to technical problems are inserted, when the theory is adequately developed to present the tools necessary for their treatment. Since the book proceeds, not in a rigorously systematic manner, but rather from easier to more difficult topics, it is suited to be read from the beginning as a textbook, when one wishes to familiarize oneself for...

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