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A Modern Theory of Integration

Robert G. Bartle



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Robert Gardner Bartle



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on measure theory and integration putting Lebesgue's Euclidean space theory into a more general context and presenting the basic applications to Fourier series calculus and real analysis The text can also pave the way to more advanced courses in probability stochastic processes or geometric measure theory Prerequisites for the book are a basic knowledge of calculus in one and several variables metric spaces and linear algebra All results presented here as well as their proofs are classical The authors claim some originality only in the presentation and in the choice of the exercises Detailed solutions to the exercises are provided in the final part of the book General Theory of Functions and Integration Angus Ellis Taylor, 1985-01-01

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interested listeners with a survey of the history of topics in our present day mathematics We consider it very useful for a mathematician to have an acquaintance with the history of the development of his subject especially in the nineteenth century where the germs of many of modern disciplines can be found Our attention has therefore been mainly directed to relatively young developments In the lectures we tried to stay clear of both oversimplification and extreme technicality The result is a text that should not cause difficulties to a reader with a working knowledge of mathematics The developments sketched in this book are fundamental for many areas in mathematics and the notions considered are crucial almost everywhere The book may be most useful in particular for those teaching mathematics Bulletin of the Calcutta Mathematical Society ,1920 *Metrics, Norms And Integrals: An Introduction To Contemporary Analysis* Jerry J

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