# Lebesgue Measure And Integration P K Jain V P Gupta

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Lebesgue–Stieltjes integration. In measure-theoretic analysis and related branches of mathematics, Lebesgue–Stieltjes integration generalizes Riemann–Stieltjes and Lebesgue integration, preserving the many advantages of the former in a more general measure-theoretic framework. The Lebesgue–Stieltjes integral is the ordinary Lebesgue integral with respect to a measure known as the Lebesgue–Stieltjes measure, which may be associated to any function of bounded variation on the real line.

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Counting measure and Ipspaces. Let X be any set, M = P(X), and  $\mu$  be the counting measure. Recall that  $\mu(A)$  is the number of points in A if A is finite and equals  $\infty$  otherwise. Integration is simply f d $\mu$  = f(x)

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