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NON-INTEGRABLE FUNCTIONS

From ancient problems of quadrature down to modern problems of communications, fundamental physics, and financial asset pricing, mathematical analysis has developed by formulating and resolving subtle and challenging issues of integration. A historic thread of ideas, including the method of exhaustion, the method of indivisibles, the law of tangency (or fundamental theorem of calculus), the theory of measure, and the method of Cauchy sums and Riemann sums, connects the work of successive analysts.

Mathematical Reviews subject classification: Primary: ; Secondary:
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