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less advanced students to  
learn. Ensuring that the  
subject is accessible for all  
readers, the author  
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and concrete manner



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which allows readers to focus on the real line.

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years to tell the story of how calculus evolved into the subject we know today. David Bressoud explains why calculus is credited to seventeenth-century figures Isaac Newton and Gottfried Leibniz, and how its current structure is based on developments that arose in the nineteenth century. Bressoud argues that a pedagogy informed

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by the historical development of calculus represents a sounder way for students to learn this fascinating area of mathematics. Delving into calculus ' s birth in the Hellenistic Eastern Mediterranean—particularly in Syracuse, Sicily and Alexandria, Egypt—as well as India and the Islamic Middle East, Bressoud considers how

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calculus' s evolution,  
Bressoud reveals  
problems with the  
standard ordering of its  
curriculum: limits,  
differentiation,  
integration, and series.  
He contends that the  
historical  
order—integration as  
accumulation, then  
differentiation as ratios of  
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In 1902, modern function theory began when Henri Lebesgue described a new "integral calculus." His "Lebesgue integral" handles more functions than the traditional integral-so many more that mathematicians can study collections (spaces) of functions. For example, it defines a distance between any two

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includes  
unusual examples in  
order to direct readers'  
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understanding. The  
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convergence is then  
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functions. Detailed appendices outline key definitions and theorems in elementary calculus and also present additional proofs, projects, and sets in real analysis. Each chapter references historical sources on real analysis while also providing proof-oriented exercises and examples that facilitate

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