

# The Calculus 7 Louis Leithold

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a revision and renewal of this calculus textbook now in its seventh edition the author has sought to utilize the technology now available for the teaching and learning of calculus the hand held graphics calculator is one such form of technology that has been integrated into the book topics in algebra trigonometry and analytical geometry appear in the appendix

this textbook intends to be a comprehensive and substantially self contained two volume book covering performance reliability and availability evaluation subjects the volumes focus on computing systems although the methods may also be applied to other systems the first volume covers chapter 1 to chapter 14 whose subtitle is performance modeling and background the second volume encompasses chapter 15 to chapter 25 and has the subtitle reliability and availability modeling measuring and workload and lifetime data analysis this text is helpful for computer performance professionals for supporting planning design configuring and tuning the performance reliability and availability of computing systems such professionals may use these volumes to get acquainted with specific subjects by looking at the particular chapters many examples in the textbook on computing systems will help them understand the concepts covered in each chapter the text may also be helpful for the instructor who teaches performance reliability and availability evaluation subjects many possible threads could be configured according to the interest of the audience and the duration of the course chapter 1 presents a good number of possible courses programs that could be organized using this text volume i is composed of the first two parts besides chapter 1 part i gives the knowledge required for the subsequent parts of the text this part includes six chapters it covers an introduction to probability descriptive statistics and exploratory data analysis random variables moments covariance some helpful discrete and continuous random variables taylor series inference methods distribution fitting regression interpolation data scaling distance measures and some clustering methods part ii presents methods for performance evaluation modeling such as operational analysis discrete time markov chains dtmc and continuous time markov chains ctmc markovian queues stochastic petri nets spn and discrete event simulation

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