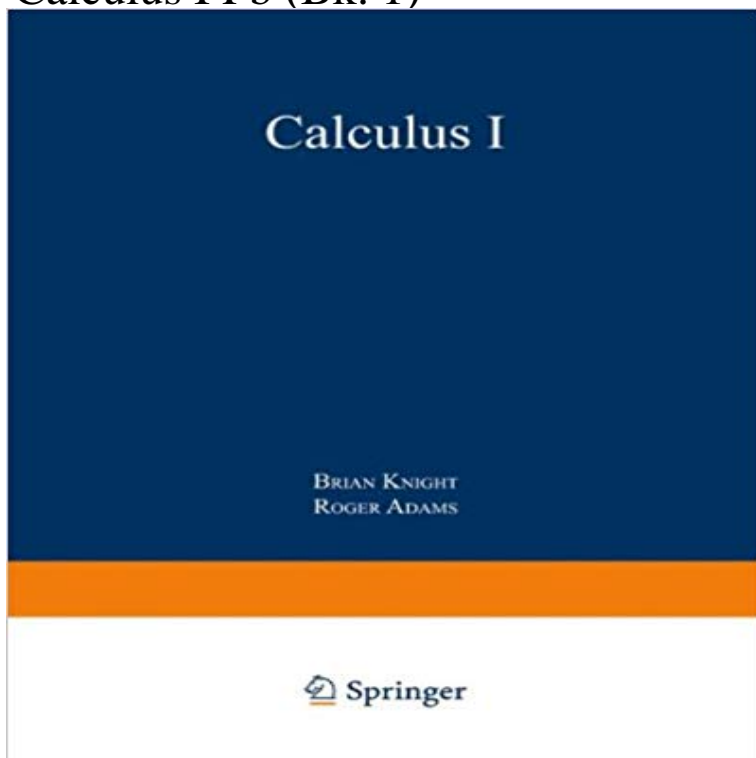


## Calculus I Pb (Bk. 1)



Each chapter in this book deals with a single mathematical topic, which ideally should form the basis of a single lecture. The chapter has been designed as a mixture of the following ingredients: -(i) Illustrative examples and notes for the students pre-lecture reading. (ii) Class discussion exercises for study in a lecture or seminar. (iii) Graded problems for assignment work.

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1 Sets, Functions A set is a collection of distinct objects. The objects belonging to a set are the elements (or members) of the set. Although the definition of a set given here refers to objects, we shall in fact take objects to be numbers throughout this book, i.e. we are concerned with sets of numbers. Illustrative Example 1: Set Notation We give straight away some examples of sets in set notation and explain the meaning in each case.

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