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Discrete Math - A. Tamilarasi

Kenneth H. Rosen



**Discrete  
Mathematics  
and Its  
Applications**

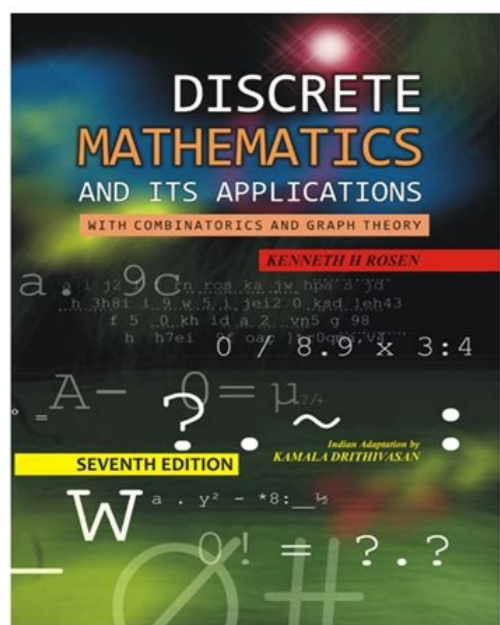
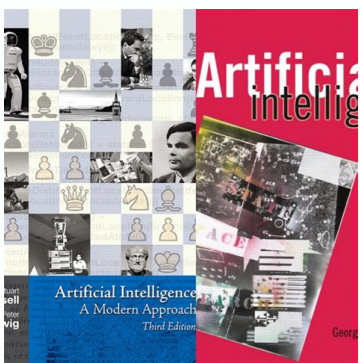
SEVENTH EDITION

Kenneth H. Rosen



# Discrete Mathematics and Its Applications

FIFTH EDITION



Set theory is the branch of mathematics that is concerned about collections of objects. Sets can be discrete or continuous; discrete mathematics is primarily concerned with the former. At a basic level, set theory is concerned with how sets can be arranged, combined, and counted. The cardinality of a finite set is the number of elements in that set. For a given set  $A$ , its cardinality is denoted by  $|A|$ . What is the cardinality of the set of prime numbers less than 25? The set of prime numbers less than 25 is  $\{2, 3, 5, 7, 11, 13, 17, 19, 23\}$ . There are 9 elements in this set, so the cardinality is 9. Cardinality can also be extended to infinite sets. Although this kind of cardinality cannot be counted, each cardinality can be compared with another cardinality. Let  $A$  and  $B$  be sets. Their cardinalities are compared as follows: If there exists a bijection between  $A$  and  $B$ , then  $|A| = |B|$ . If there exists an injective function from  $A$  to  $B$ , but no bijective function, then  $|A| < |B|$ .

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