



# A First Course in Discrete Mathematics

*John C. Molluzzo, Fred Buckley*

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## **A First Course in Discrete Mathematics** John C. Molluzzo, Fred Buckley

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Title of related interest by Waveland Press: Buckley-Lewinter, *Introductory Graph Theory with Applications* (ISBN 9781478611752).

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### 2. Sets and Logic

Sets and Elements / Subsets / Venn Diagrams / Intersections, Unions, and Complements / Conjunction, Disjunction, and Negation / Conditional and Biconditional Statements / Tautologies and Contradictions / Logical Implication and Decision Tables / Case Study: Searching and Sorting

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### 7. Boolean Algebra

Boolean Algebras and Their Properties / Boolean Functions / Karnaugh Maps and Prime Implicants / Minimizing Boolean Functions and Expressions / Case Study: Switching Theory

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