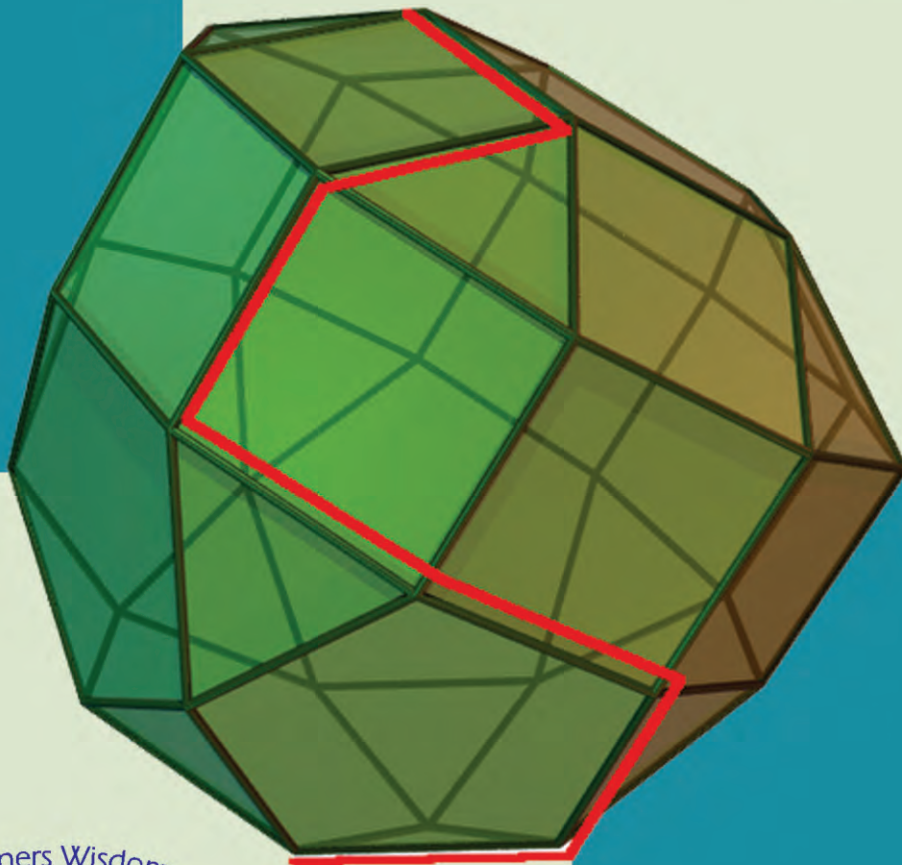


DISCRETE MATHEMATICS

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Discrete Mathematics

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DISCRETE MATHEMATICS

This book is intended to be a text book for a course in **Discrete Mathematics**. The topics are presented in a systematic and logical manner. The mathematical topics to be discussed in this book are Logic, Basic Computability Theory, Algebraic Structures, Graph Theory, Lattices and Boolean algebra. These topics will support the more advanced courses in computer science programs such as in the areas of automata, computability, artificial intelligence, formal languages and syntactical analysis, information organization and retrieval, switching theory, computer representation of discrete structures and programming languages. The concepts and basic theory presented in the book would be sufficient to understand advanced computer science applications. To make the text comprehend to readers, numerous examples, figures, tables and exercises have been included in the text. All efforts have been made to make the contents simple and necessary explanations are given in a very clear and lucid manner.

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