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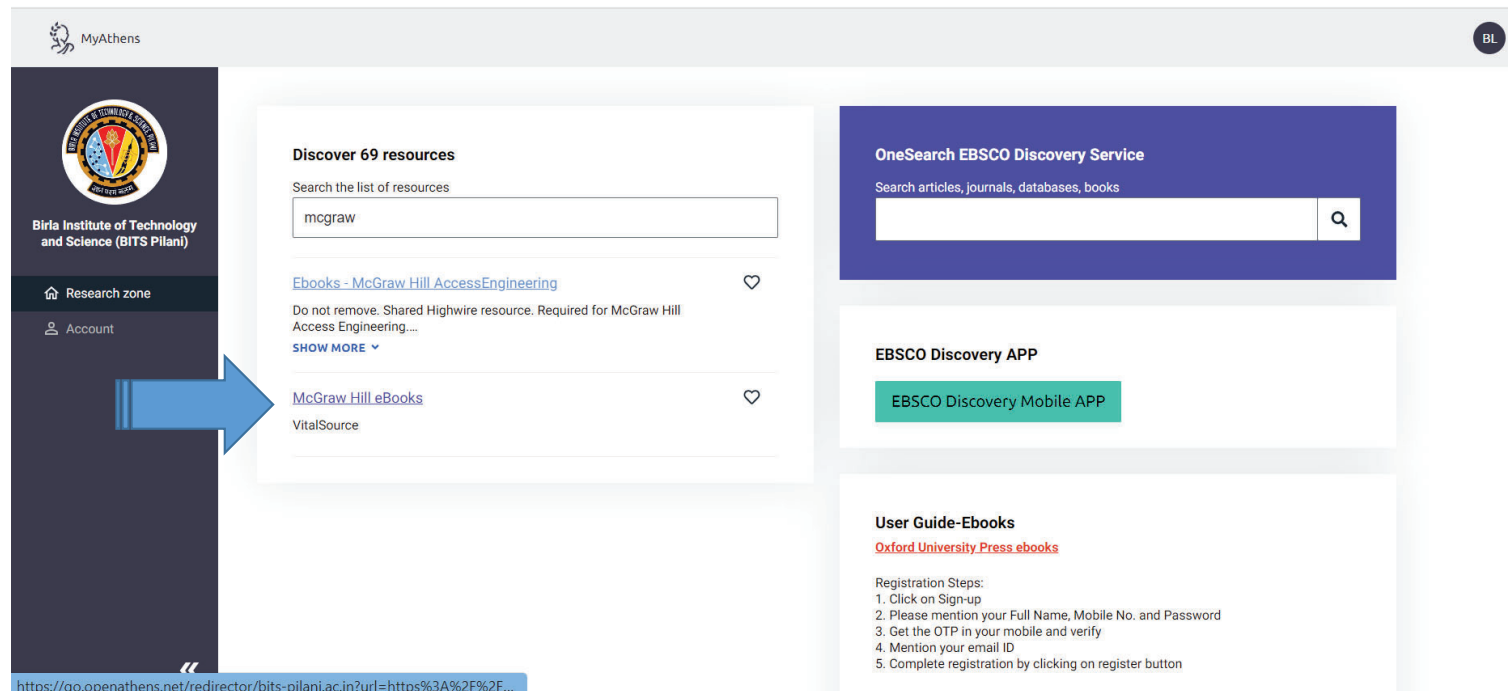
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First Time user, Sign in and create an account

The image shows a McGraw Hill sign-in page with a decorative background. The background features a desk with a computer monitor displaying a bar chart, a coffee cup, and a potted plant. Above the desk, there are stars and a crescent moon. The sign-in form is a white card with a red border. It has the McGraw Hill logo at the top, followed by the text 'Sign In' and 'New here? [Create an Account](#)'. Below this are fields for 'Email' and 'Password', each with a red error message: 'Please enter an email address.' and 'Please enter a password.' respectively. There is a 'Forgot Password?' link and a blue 'Sign In' button. At the bottom of the card, it says 'Powered by VitalSource'. In the bottom right corner of the overall image, there are links for 'English', 'Store', and a red 'lead' button.

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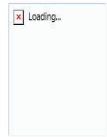
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HURRY Last character. Last 24 hours of our flash. Thu 15:34
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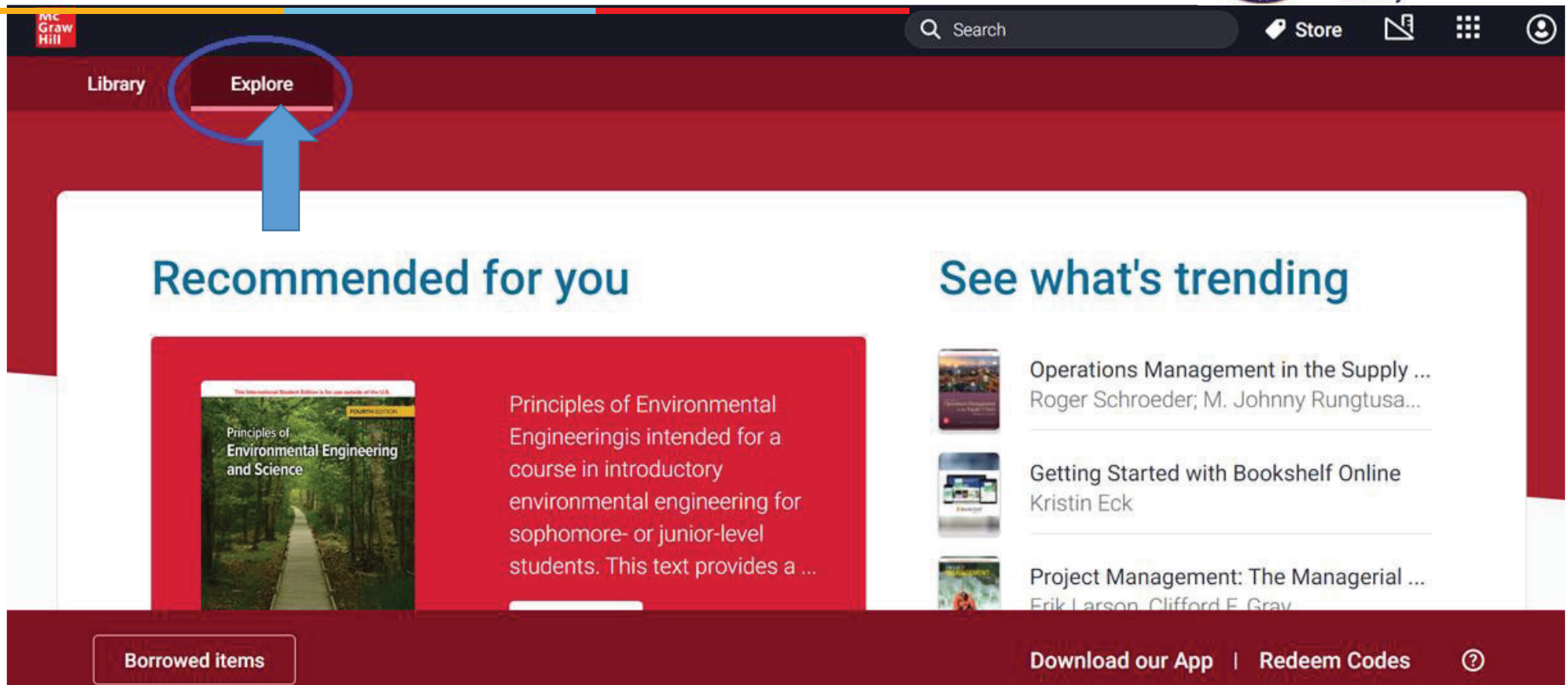
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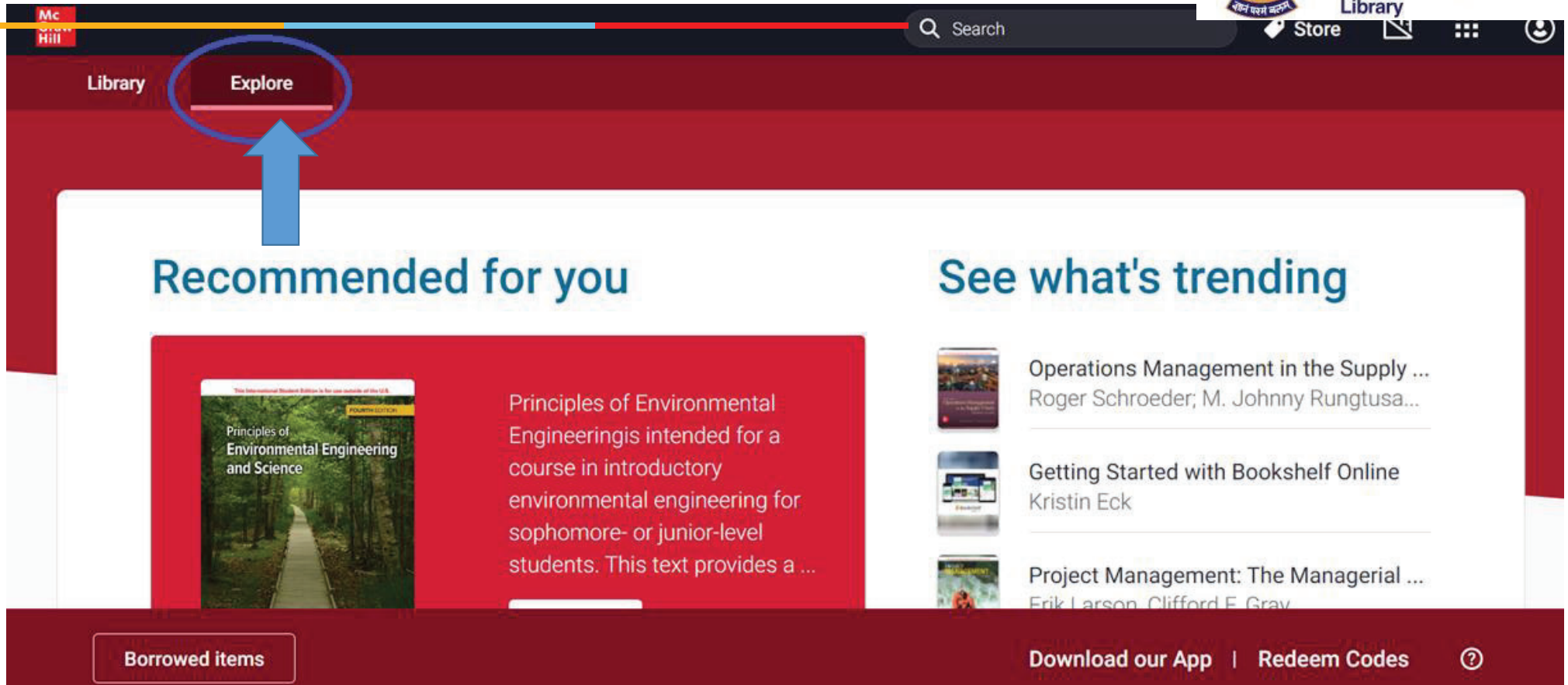
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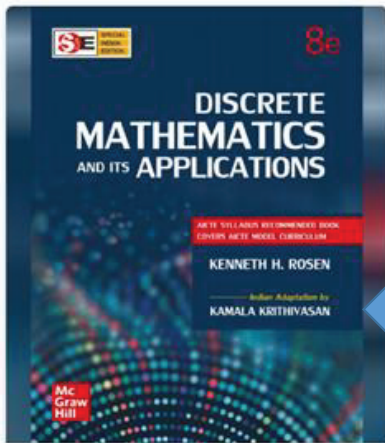
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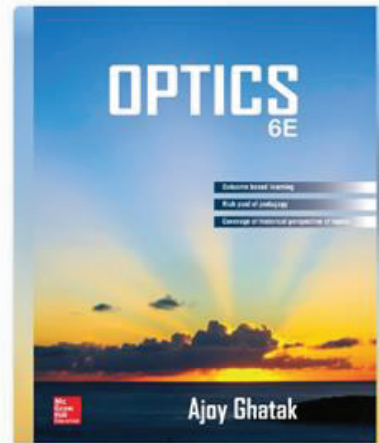
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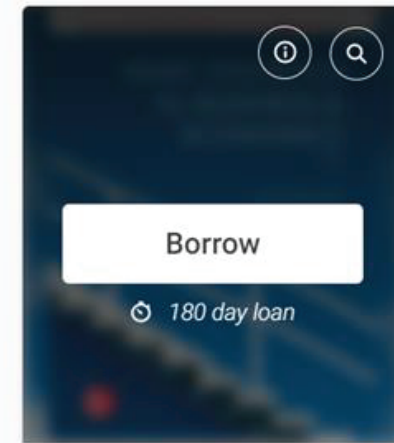
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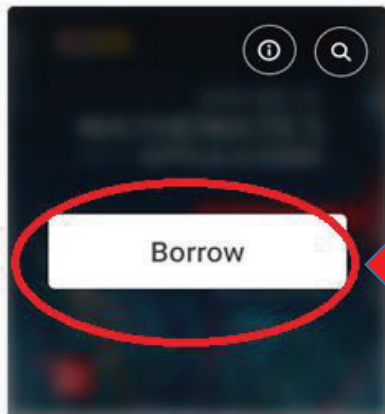


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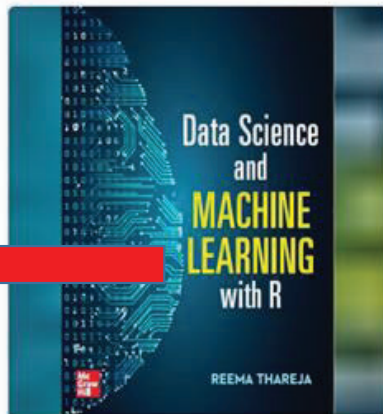
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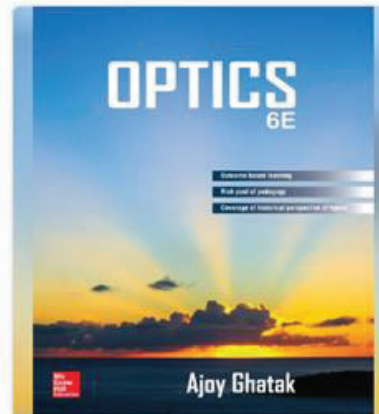
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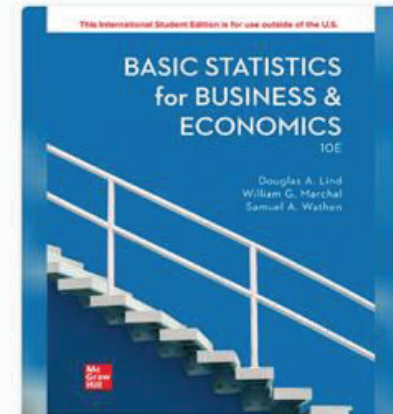
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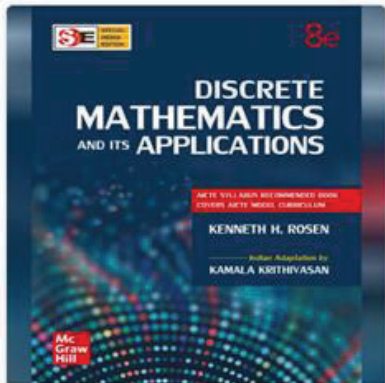
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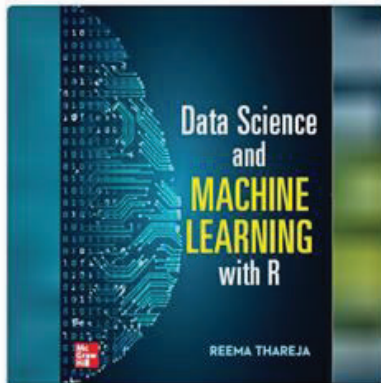


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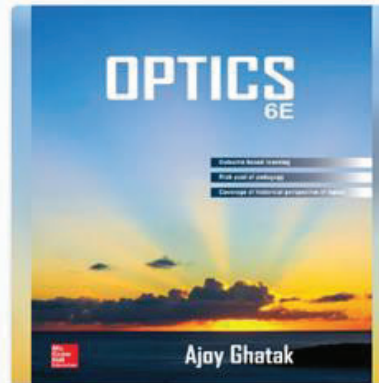
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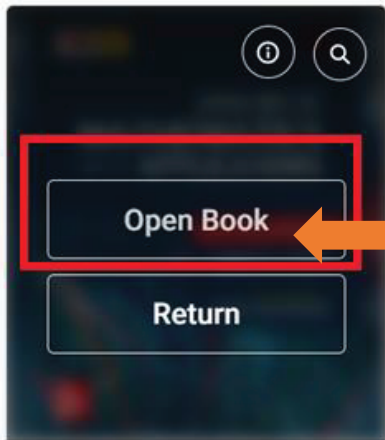
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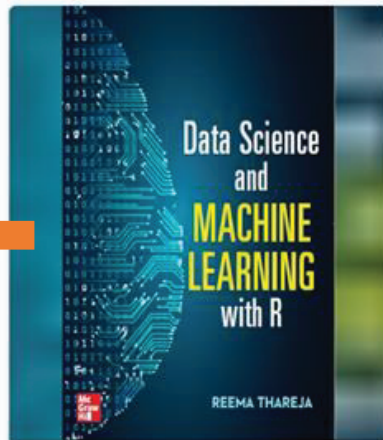


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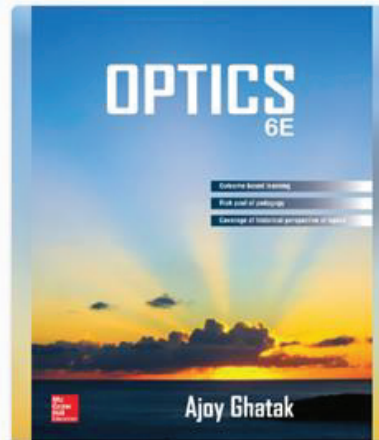
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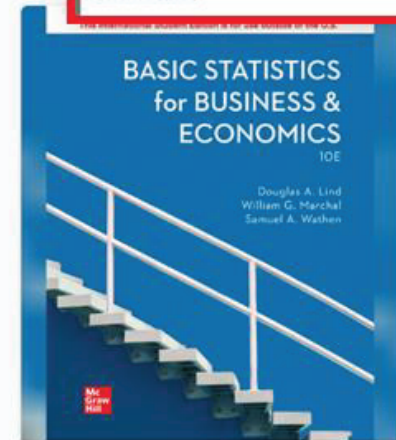
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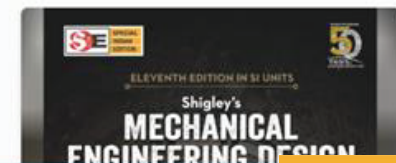
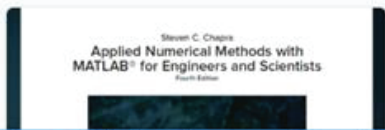
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Chapter	Title	Page
Chapter 1	The Foundations: Logic and Proofs	28
Chapter 2	Basic Structures: Sets, Functions, Sequences, Sums, and Matrices	183
Chapter 3	Algorithms	279
Chapter 4	Number Theory and Cryptography	334
Chapter 5	Induction and Recursion	422
Chapter 6	Counting	487

The central part of the interface shows the book cover, which is the 8th edition (8e), Special Indian Edition. The cover features the title "DISCRETE MATHEMATICS AND ITS APPLICATIONS" and the author "KENNETH H. ROSEN". It also mentions "Indian Adaptation by KAMALA KRITHIVASAN" and "McGraw Hill". A red banner on the cover states "AICTE SYLLABUS RECOMMENDED BOOK COVERS AICTE MODEL CURRICULUM".

At the bottom of the interface, there is a navigation bar with a bookmark icon, a progress indicator, and page navigation controls showing "1 / 1209".

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Chapter 6_Counting	487



Basic Structures: Sets, Functions, Sequences, Sums, and Matrices

CHAPTER OUTLINE

2.1 Sets	2.5 Sequences and Summations
2.2 Set Operations	2.6 Cardinality of Sets
2.3 Functions	2.7 Matrices
2.4 Primitive and Partial Recursive Functions	

Each of discrete mathematics is devoted to the study of discrete structures, used to represent discrete objects. Many important discrete structures are built using sets, which are collections of objects. Among these structures built from sets are combinations, unordered collections of objects used extensively in counting, relations, sets of ordered pairs that represent relationships between objects, graphs, sets of vertices and edges that connect vertices, and finite state machines, used to model computing machines. These are some of the topics we will study in later chapters.

The concept of a function is extremely important in discrete mathematics. A function assigns to each element of a first set exactly one element of a second set, where the two sets are not necessarily distinct. Functions play important roles throughout discrete mathematics. They are used to represent the computational complexity of algorithms, to study the size of sets, to count objects, and in a myriad of other ways. Useful structures such as sequences and strings are special types of functions. In this chapter, we will introduce the notion of sequences, which represent ordered lists of elements. Furthermore, we will introduce some important types of sequences and we will show how to define the terms of a sequence using earlier terms. We will also address the problem of identifying a sequence from its first few terms.

In our study of discrete mathematics, we will often add consecutive terms of a sequence of numbers. Because adding terms from a sequence, as well as other indexed sets of numbers, is such a common occurrence, a special notation has been developed for adding such terms. In this chapter, we will introduce



Back to Page



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2

Functions, Sequences, Sums, and Matrices

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- | | |
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| 2.1 Sets | 2.5 Sequences and Summations |
| 2.2 Set Operations | 2.6 Cardinality of Sets |
| 2.3 Functions | 2.7 Matrices |
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