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Ishappa Bandi, Deputy Librarian
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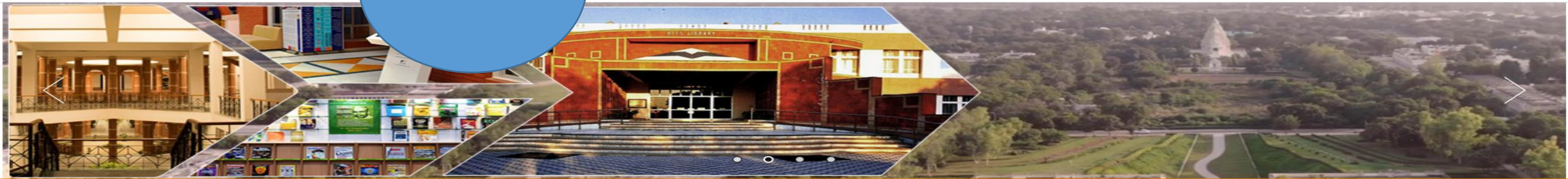
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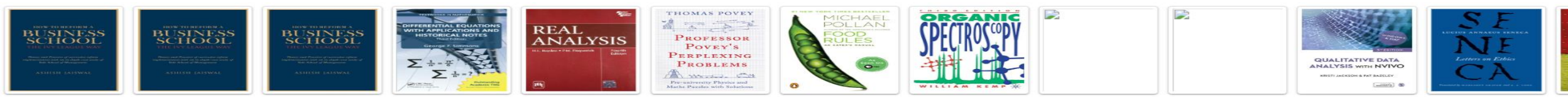
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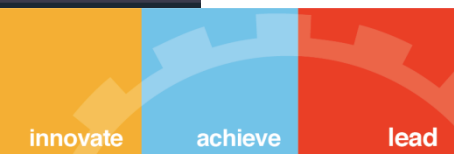
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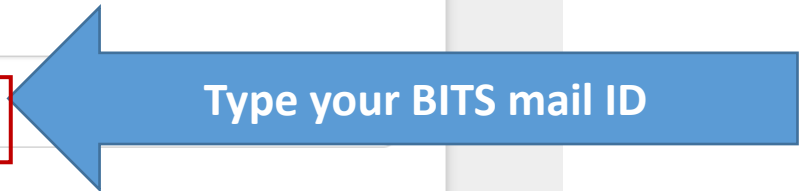
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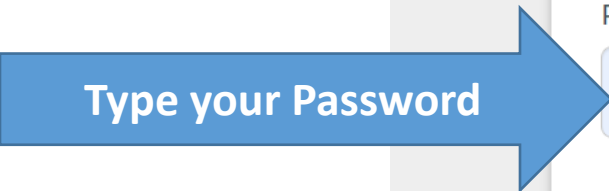


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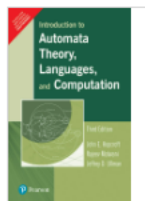
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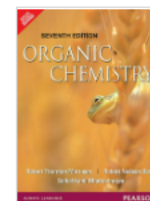
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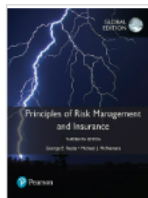
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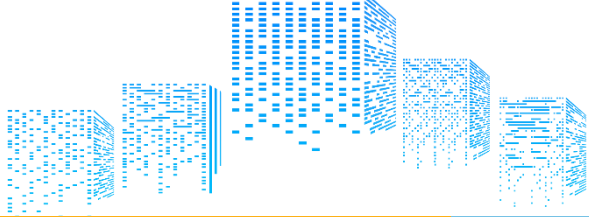
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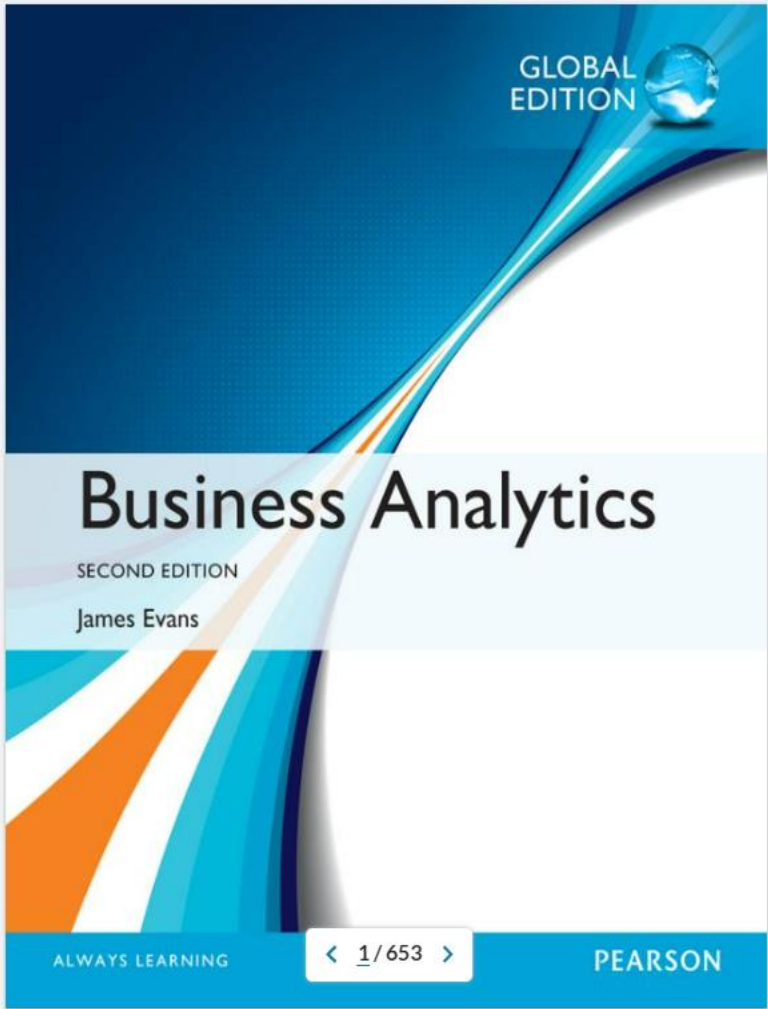
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Chapter 12 Monte Carlo Simulation and Risk Analysis

Seating Zone	Seats Available	Ticket Price	Mean Demand	Standard Deviation
First	21,000	\$100.00	1,700	2,500
Second	14,000	\$60.00	8,000	3,000

Let the random distribution of total revenue under these assumptions using an Excel data table with 50 simulation trials. Summarize your results with a histogram.

- For the new product model in Problem 9 of Chapter 11, suppose that the first-year sales volume is normally distributed with a mean of 100,000 units and a standard deviation of 10,000. Use the $NORM.INV$ function and a one-way data table to conduct a Monte Carlo simulation to find the distribution of the net present value profit over the 3-year period.
- Financial analysts often use the following model to characterize changes in stock prices:

$$P_t = P_0 e^{(\mu - 0.5\sigma^2)t + \sigma Z\sqrt{t}}$$

where

- P_0 = current stock price
- P_t = price at time t
- μ = mean (logarithmic) change of the stock price per unit time
- σ = (logarithmic) standard deviation of price change
- Z = standard normal random variable

This model assumes that the logarithm of a stock's price is a normally distributed random variable (see the discussion of the lognormal distribution and note that the first term of the exponent is the mean of the lognormal distribution). Using historical data, we can estimate values for μ and σ . Suppose that the average daily change for a stock is \$0.003227, and the standard deviation is 0.026154. Develop a spreadsheet to simulate the price of the stock over the next 30 days if the current price is \$53. Use the Excel function $NORM.S.INV(RAND())$ to generate values for Z . Construct a chart showing the movement in the stock price.

- Use *Analytic Solver Platform* to simulate the *Outsourcing Decision Model* under the assumptions that the production volume will be triangular with a minimum of 800, maximum of 1,700, and most likely value of 1,400, and that the unit supplier cost

is normally distributed with a mean of \$175 and a standard deviation of \$12. Find the probability that outsourcing will result in the best decision.

For the *Outsourcing Decision Model*, suppose that the demand volume is lognormally distributed with a mean of 1,500 and standard deviation of 500. What is the distribution of the cost differences between manufacturing in-house and purchasing? What decision would you recommend? Define both the cost difference and decision as output cells. Because output cells in *Analytic Solver Platform* must be numeric, replace the formula in cell B20 with $=IF(B19<=0,1,0)$, that is, 1 represents manufacturing and 0 represents outsourcing.

- Suppose that several variables in the model for the economic value of a customer in Example 11.1 in Chapter 11 are uncertain. Specifically, assume that the revenue per purchase is normal with a mean of \$50 and standard deviation of \$5 and the defection rate is uniform between 20% and 40%. Find the distribution of V using *Analytic Solver Platform*.
- For the profit model developed in Example 11.2 in Chapter 11 and the Excel model in Figure 11.4, suppose that the demand is triangular with a minimum of 35,000, maximum of 60,000 and most likely value of 50,000; fixed costs are normal with a mean of \$400,000 and a standard deviation of \$25,000; and unit costs are triangular with a minimum of \$22.00, most likely value of \$24.00, and maximum value of \$30.00.
 - Use *Analytic Solver Platform* to find the distribution of profit.
 - What is the mean profit that can be expected?
 - How much profit can be expected with probability of at least 0.7?
 - Find a 95% confidence interval for a 5,000-trial simulation.
 - Interpret the sensitivity chart.
- For the *Moore Pharmaceuticals* model, suppose that analysts have made the following assumptions:
 - R&D costs: Triangular(\$500, \$700, \$800) in millions of dollars
 - Clinical trials costs: Triangular(\$135, \$150, \$160) in millions of dollars
 - Market size: Normal(2000000, 250000)
 - Market share in year 1: Uniform(6%, 10%)

All other data are considered constant. Develop and run a Monte Carlo simulation model to predict the net present value and cumulative net profit for each

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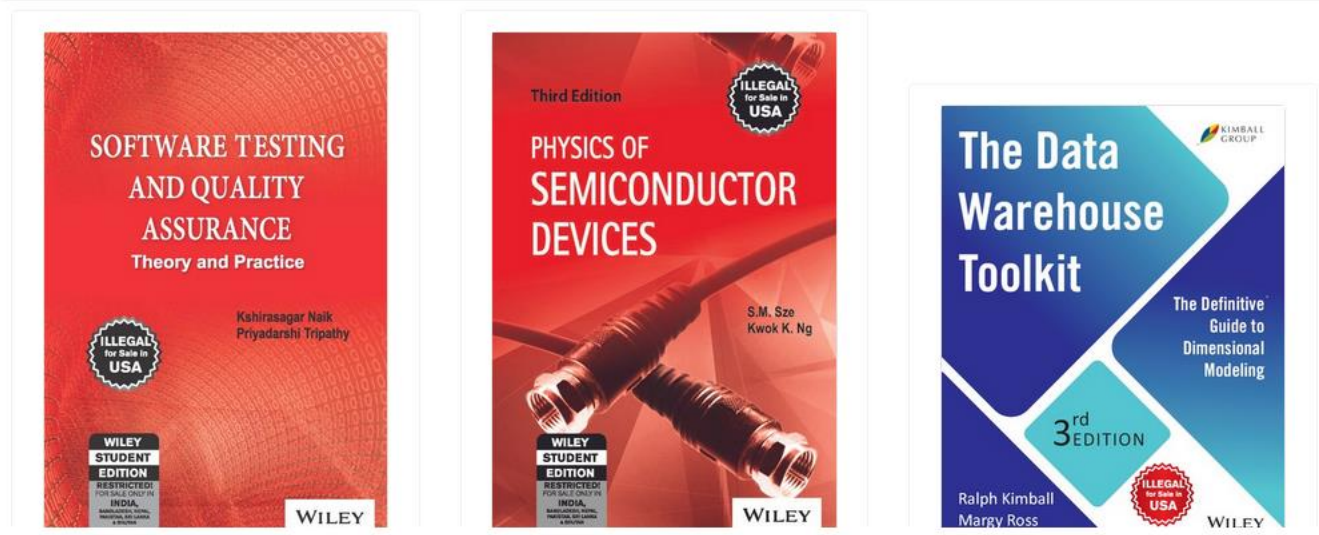
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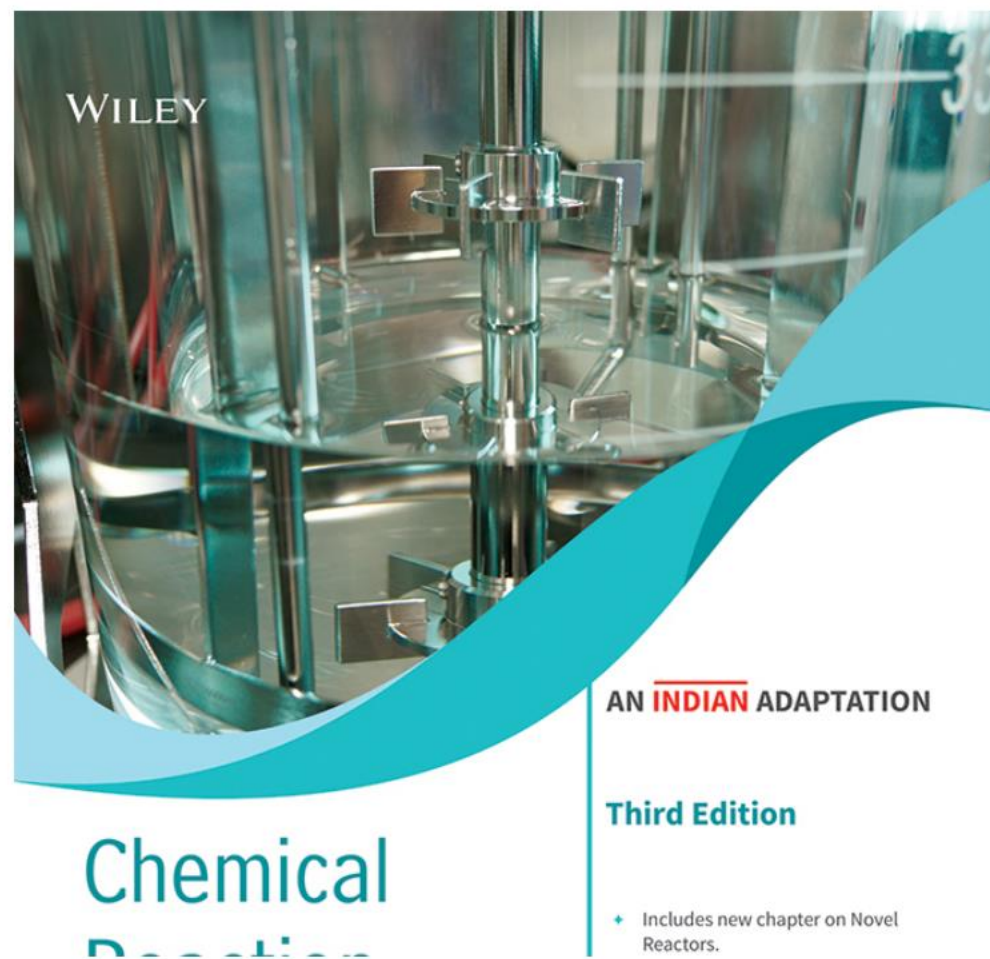


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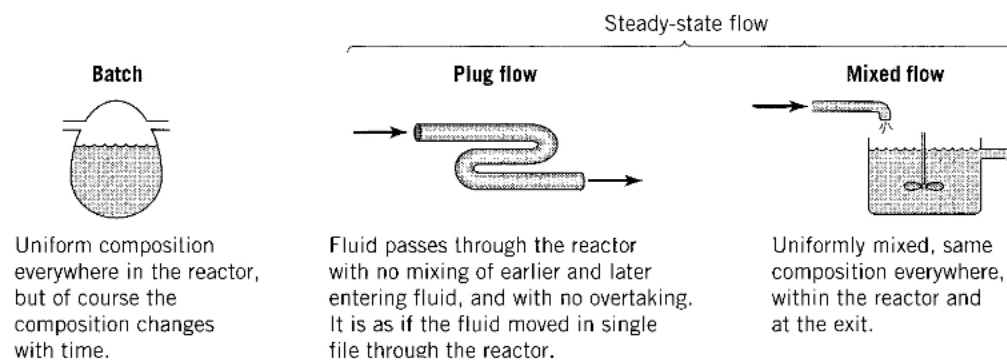
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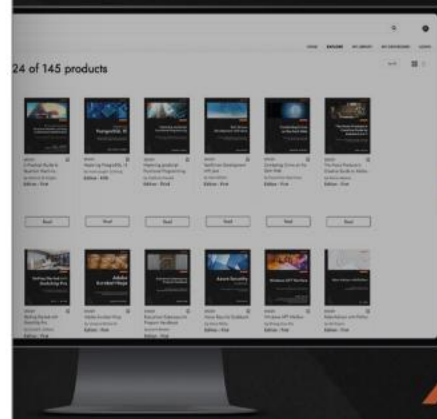
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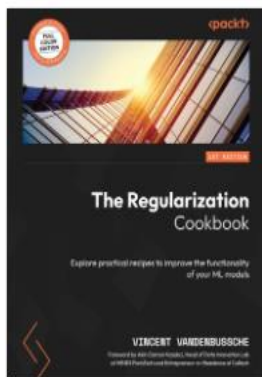
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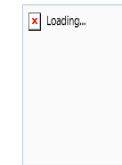
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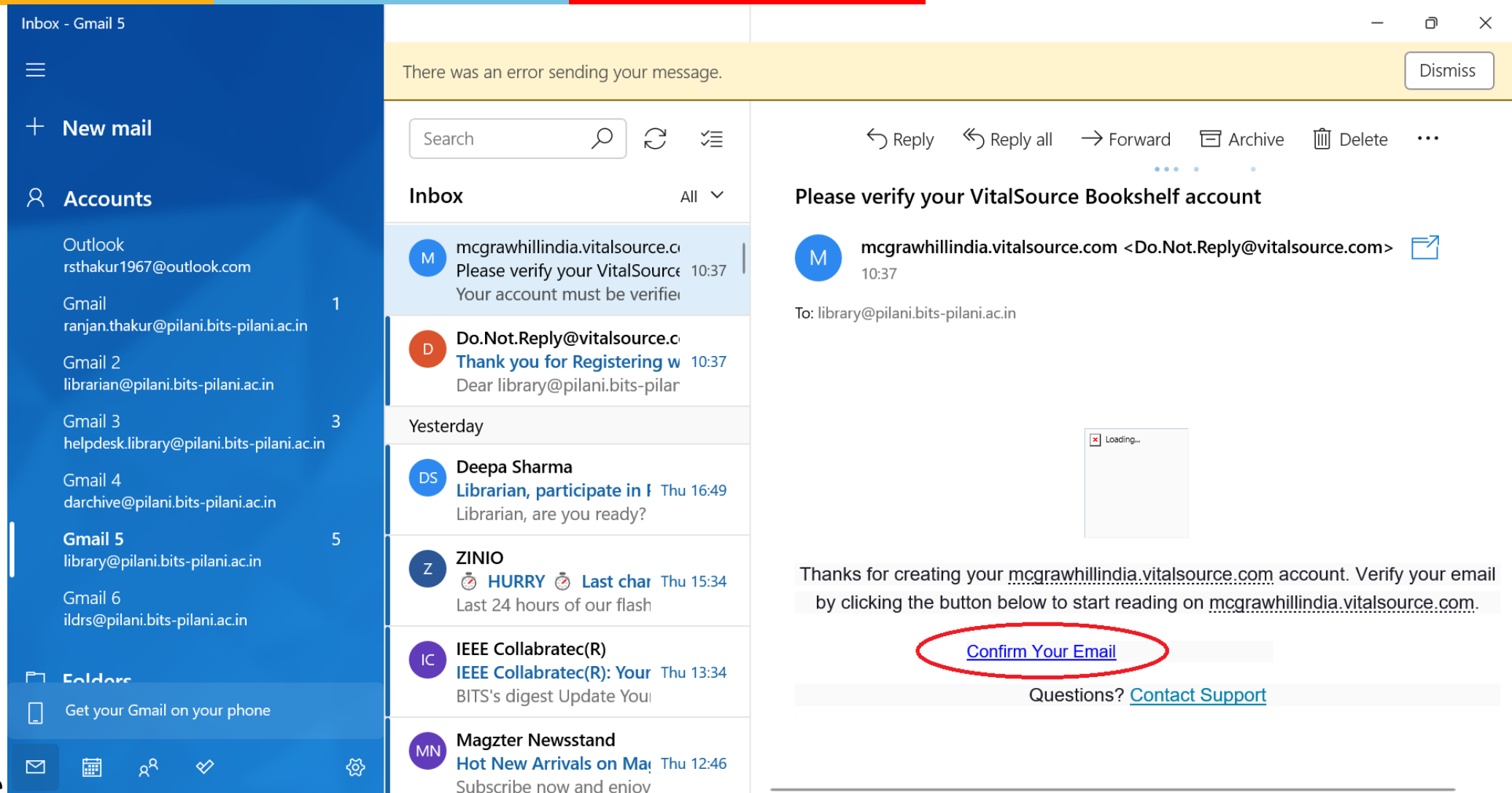
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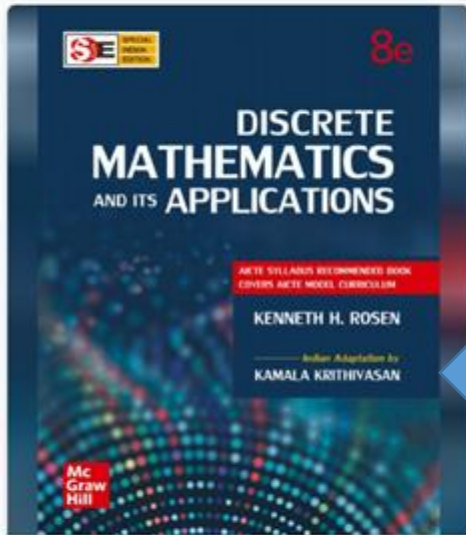


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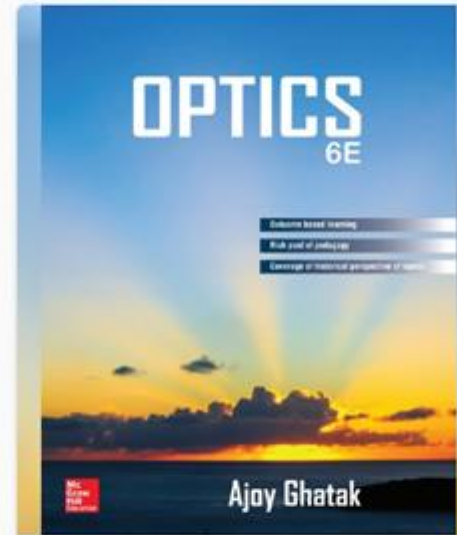
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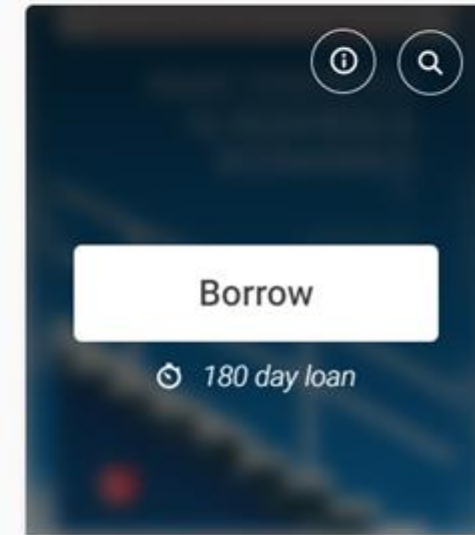
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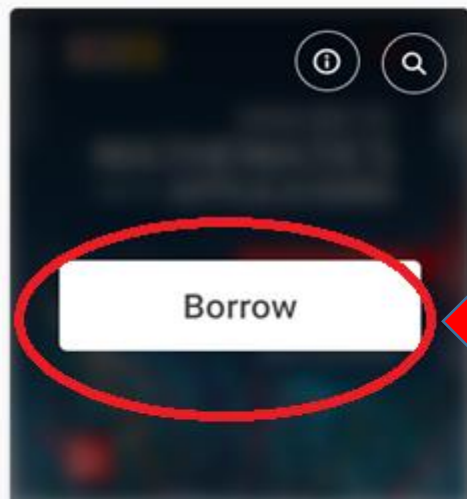
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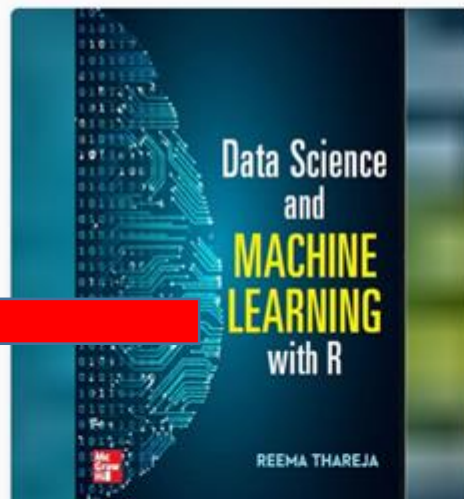
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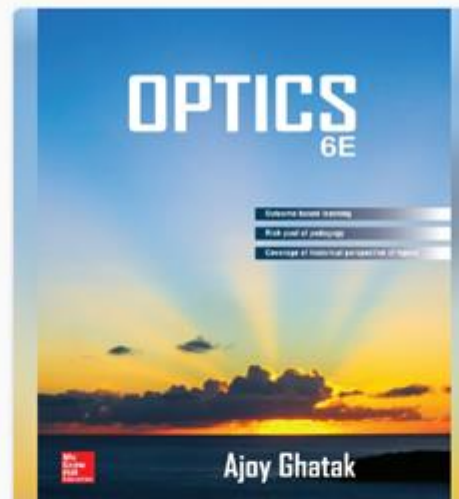
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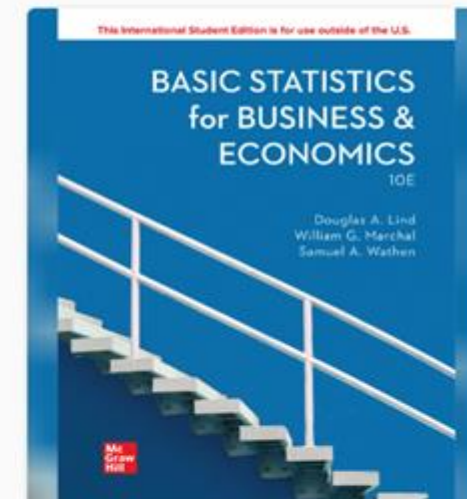
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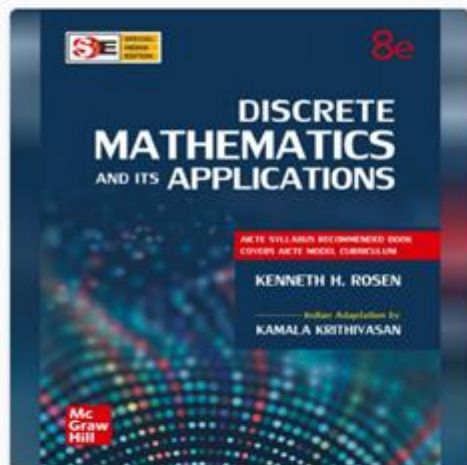


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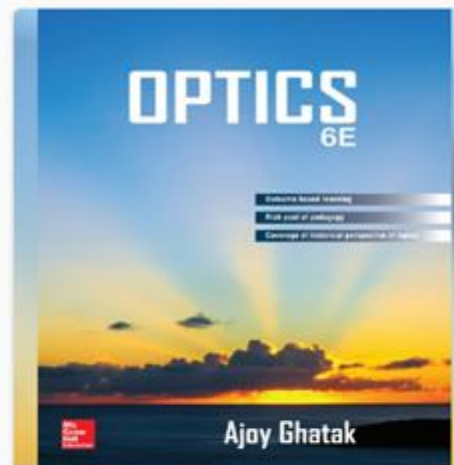
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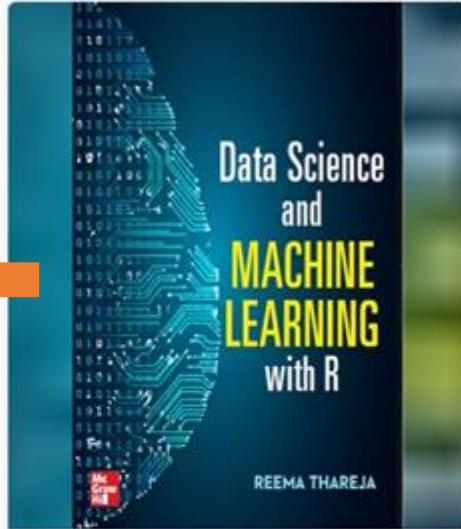


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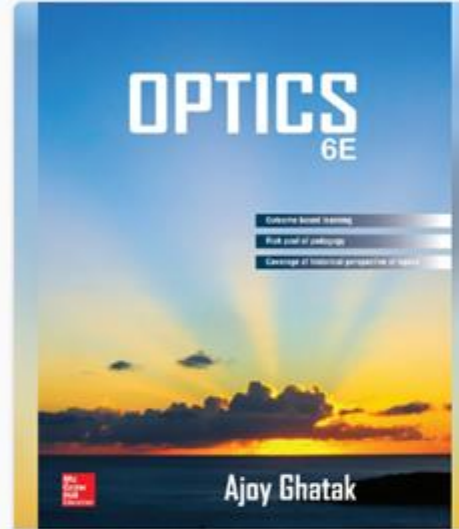
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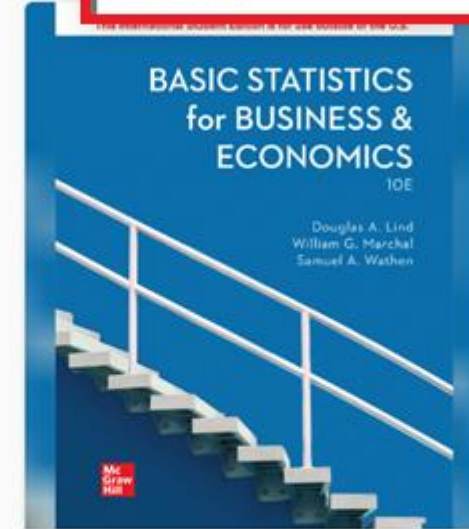
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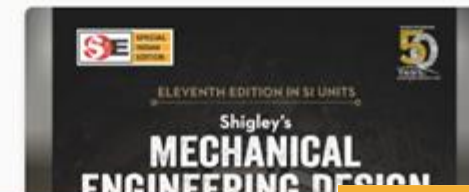
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Basic Structures: Sets, Functions, Sequences, Sums, and Matrices

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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 |
| 2.4 Primitive and Partial Recursive Functions | |

Much 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



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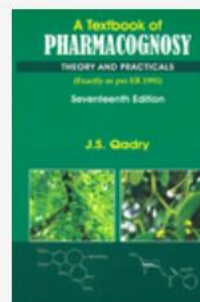


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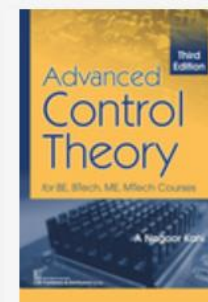
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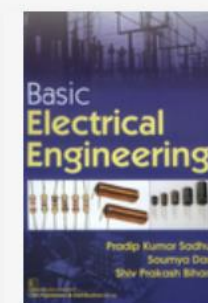
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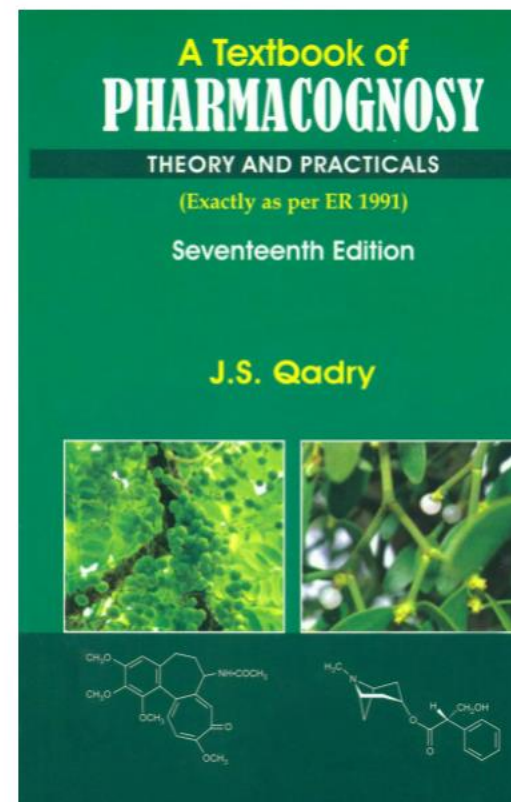


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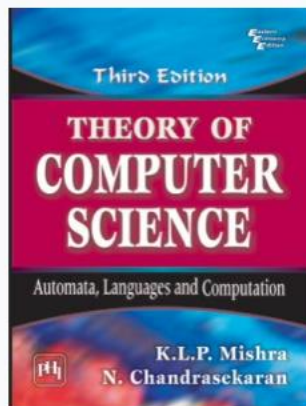
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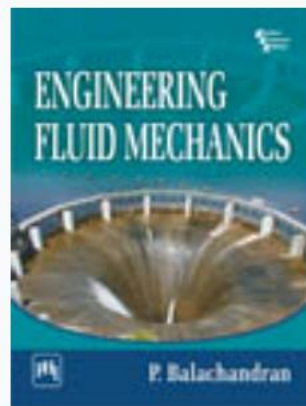
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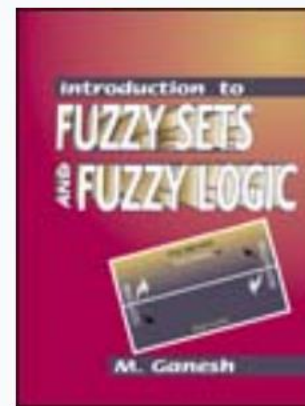
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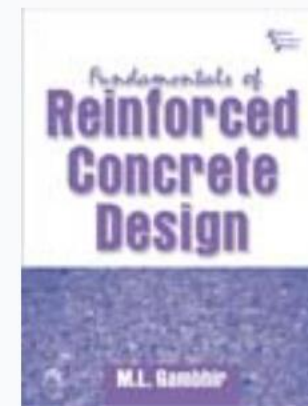
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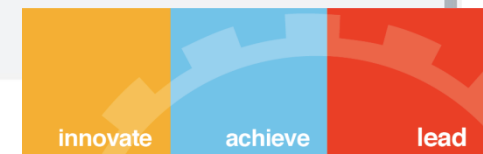
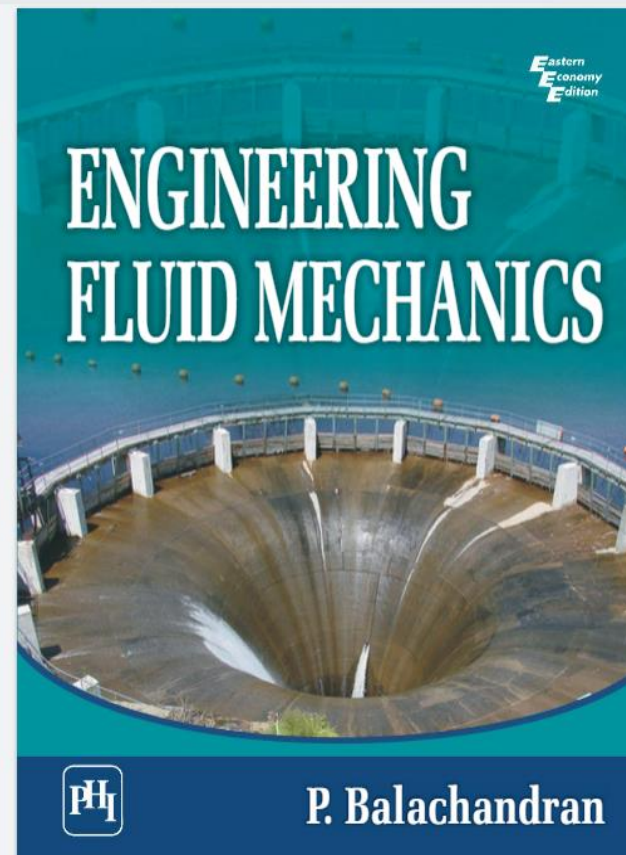
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Toomey, Dan Packt Publishing, Limited 2014

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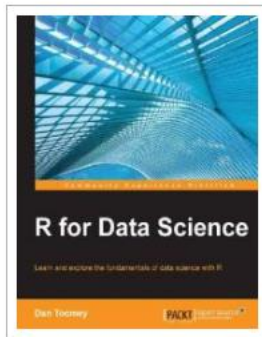
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Chapter 1. Data Mining Patterns

A common use of data mining is to detect patterns or rules in data.

The points of interest are the non-obvious patterns that can only be detected using a large dataset. The detection of simpler patterns, such as market basket analysis for purchasing associations or timings, has been possible for some time. Our interest in R programming is in detecting unexpected associations that can lead to new opportunities.

Some patterns are sequential in nature, for example, predicting faults in systems based on past results that are, again, only obvious using large datasets. These will be explored in the next chapter.

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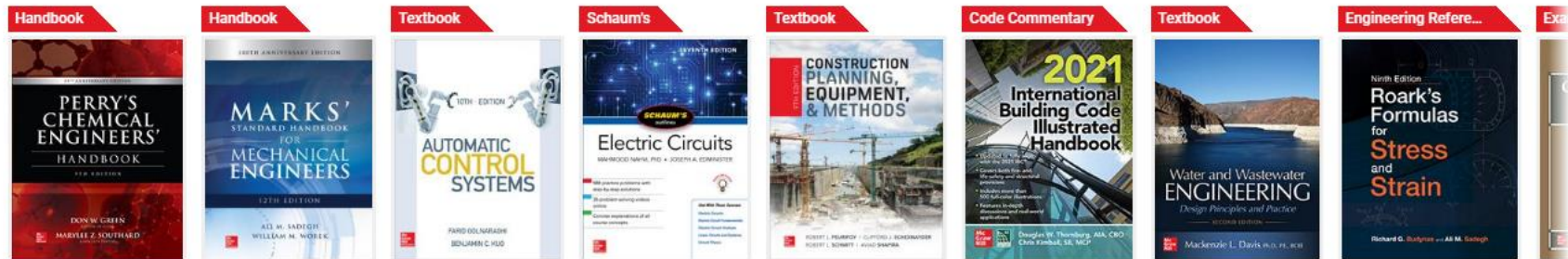
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2.2. BIAS AND VARIANCE

Consider performing the following experiment. We first collect a random sample \mathcal{D} of N independently drawn patterns from the distribution $p(\mathbf{x}, y)$, and then measure the *sample error/training error/approximation error* from Eqn (2.4), using loss function (2.5) for classification problem or (2.6) for regression problem. Let us denote the approximation error based on data sample \mathcal{D} and hypothesis h as 'error $_{\mathcal{D}}[h]$ '. If we repeat the experiment several times, each time drawing a different sample $(\mathbf{x}^{(i)}, y^{(i)})$ of size N , we would expect to see different values of error $_{\mathcal{D}}[h]$, on the basis of the random differences in the way the different samples of size N are made up. We say in such cases that error $_{\mathcal{D}_j}[h]$, the result of the j^{th} experiment, is a *random variable*.

Imagine that we were to run K such experiments, measuring the random variables error $_{\mathcal{D}_j}[h]; j = 1, 2, \dots, K$. The average over the K experiments:

$$\text{error}_{\mathcal{D}}[h] = \mathbb{E}_{\mathcal{D}}\{\text{error}_{\mathcal{D}_j}[h]\}$$

(2.7)

where $\mathbb{E}_{\mathcal{D}}\{\cdot\}$ denotes the expectation or ensemble average.

Bias and variance are most easily understood in the context of regression (numeric prediction). It is convenient to consider the particular case of a hypothesis function trained using the risk function (2.4), although our conclusions will be much more general.

Let us suppose that there is a true (yet unknown) function $f(\mathbf{x})$ possessing continuous-valued output v with

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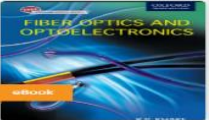


















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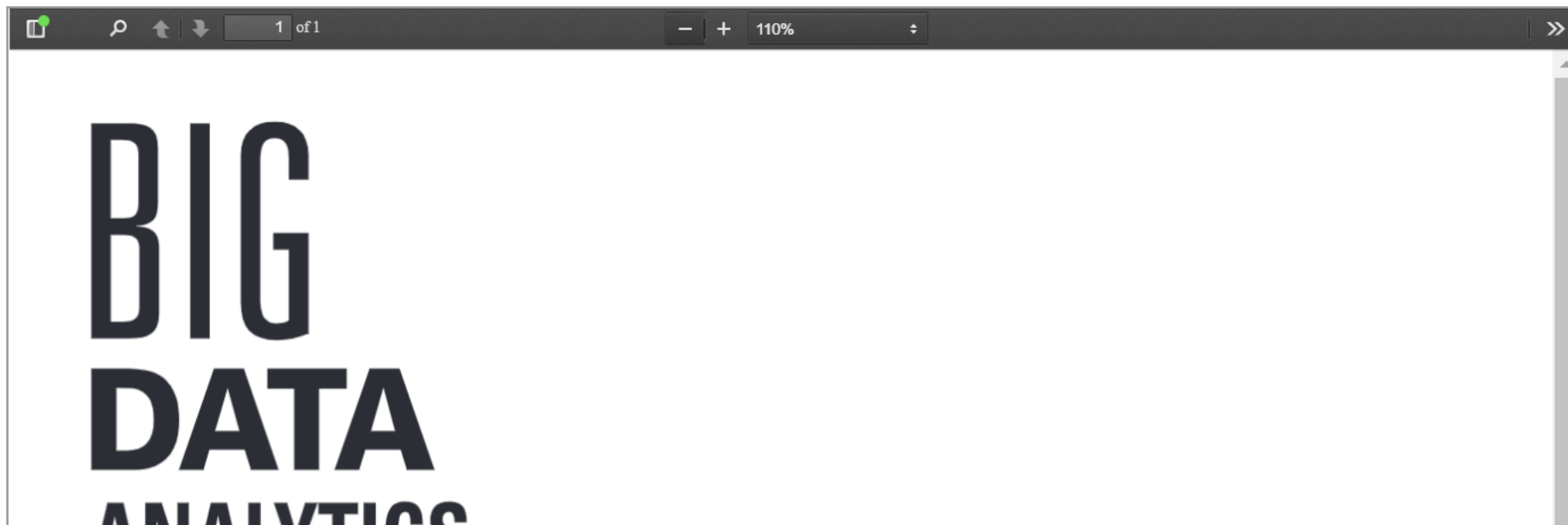
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CHAPTER 1 Introduction to Big Data Analytics

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- Appreciate emerging trends in information extraction and analytics
- Understand data science and its overlapping disciplines
- Recognize the characteristics of big data
- Explore big data architecture
- Be aware of the composition of data science team

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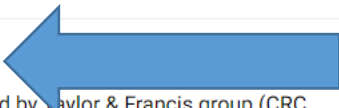
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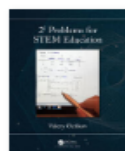
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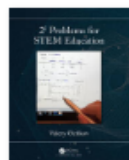
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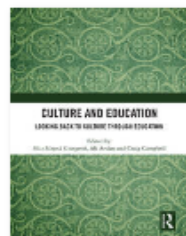
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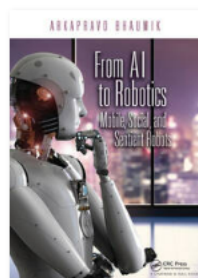


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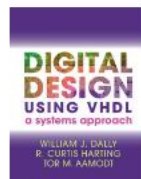
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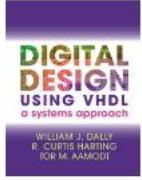
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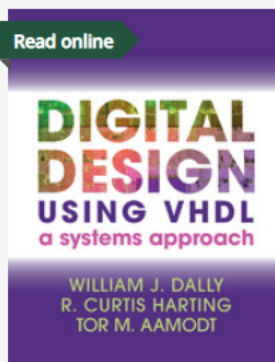


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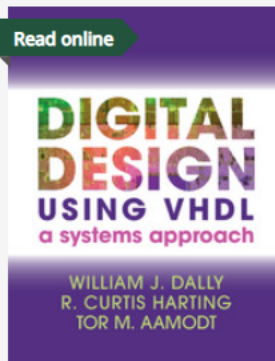
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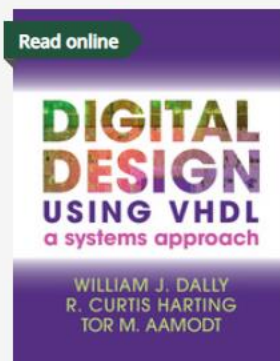
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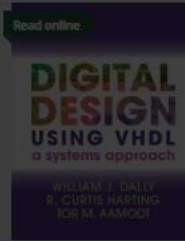
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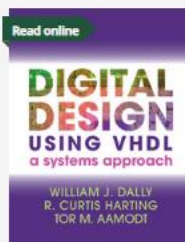


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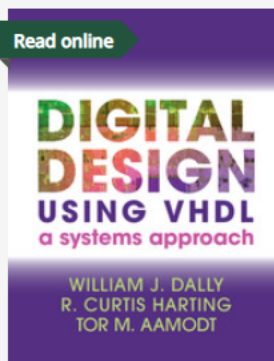


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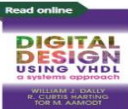

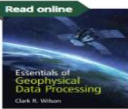
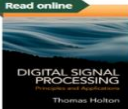
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The digital abstraction

Digital systems are pervasive in modern society. Some uses of digital technology are obvious – such as a personal computer or a network switch. However, there are also many other applications of digital technology. When you speak on the phone, in almost all cases your voice is being digitized and transmitted via digital communications equipment. When you listen to an audio file, the music, recorded in digital form, is processed by digital logic to correct errors and improve the audio quality. When you watch TV, the image is transmitted in a digital format and processed by digital electronics. If you have a DVR (digital video recorder) you are recording video in digital form. DVDs are compressed digital video recordings. When you play a DVD or stream a movie, you are digitally decompressing and processing the video. Most communication radios, such as cell phones and wireless networks, use digital signal processing to implement their modems. The list goes on.

Most modern electronics uses analog circuitry only at the edge – to interface to a physical sensor or actuator. As quickly as possible, signals from a sensor (e.g., a microphone) are converted into digital form. All real processing, storage, and transmission of information is done digitally. The signals are converted back to analog form only at the output – to drive an actuator (e.g., a speaker) or control other analog systems.

Not so long ago, the world was not as digital. In the 1960s digital logic was found only in expensive computer systems and a few other niche applications. All TVs, radios, music recordings, and telephones were analog.

The shift to digital was enabled by the scaling of integrated circuits. As integrated circuits became more complex, more sophisticated signal processing became possible. Complex techniques such as modulation, error correction, and compression were not feasible in analog technology. Only digital logic, with its ability to perform computations without accumulating noise and its ability to represent signals with arbitrary precision, could implement these signal processing algorithms.

In this book we will look at how the digital systems that form such a large part of our lives function and how they are designed.

1.1 DIGITAL SIGNALS

Digital systems store, process, and transport information in digital form. Digital information is represented as discrete symbols that are encoded into ranges of a physical quantity. Most often we represent information with just two symbols, “0” and “1,” and encode these symbols into voltage ranges as shown in [Figure 1.1](#). Any voltage in the ranges labeled “0” and “1” represents a “0” or “1” symbol, respectively. Voltages between these two ranges, in the region labeled “?”, are undefined and represent neither symbol. Voltages outside the ranges, below the “0” range, or above the “1” range are not allowed and may permanently damage the system if they occur. We call a signal



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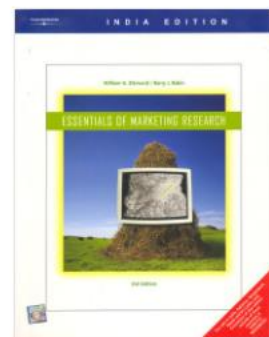
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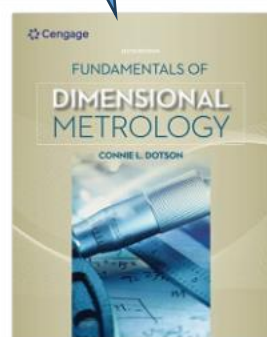
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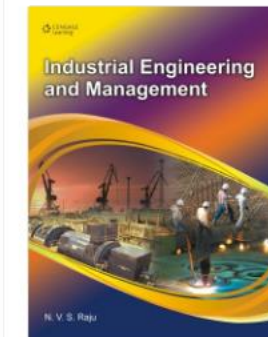
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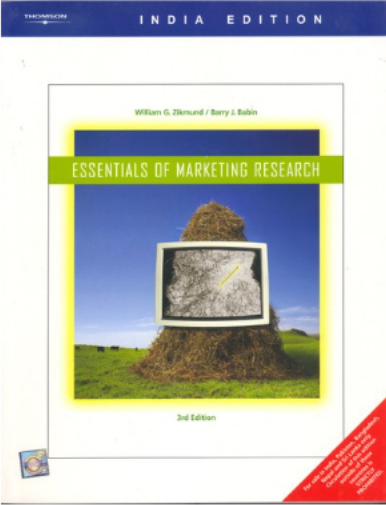
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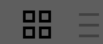


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