



Introductory Mathematics for Engineering Applications

By Kuldip S. Rattan, Nathan W. Klingbeil

Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. First edition. Authors Rattan and Klingbeil have developed a new approach to engineering math that improves student motivation and success and supports greater retention of engineering majors. The book is designed specifically for engineering students, who specifically cite calculus as the reason for dropping out of engineering courses. Introduction to Engineering Math is designed to improve student retention, motivation and success through application-driven, just-in-time engineering math instruction provided by engineering faculty.

1 Straight Lines in Engineering

1.1 Vehicle during Braking

1.2 Voltage-Current Relationship in a Resistive Circuit

1.3 Force-Displacement in a Preloaded Tension Spring

1.4 Further Examples of Lines in Engineering

2 Quadratic Equations in Engineering

2.1 A Projectile in a Vertical Plane

2.2 Current in a Lamp

2.3 Equivalent Resistance

2.4 Further Examples of Quadratic Equations in Engineering

3 Trigonometry in Engineering

3.1 Introduction

3.2 One-Link Planar Robot

3.3 Two-Link Planar Robot

3.4 Further Examples of Trigonometry in Engineering

4 Two-Dimensional Vectors in Engineering

4.1 Introduction

4.2 Position Vector in Rectangular Form

4.3 Position Vector in Polar Form

4.4 Vector Addition

5 Complex Numbers in Engineering

5.1 Introduction

5.2 Position of One-Link Robot as a Complex Number

5.3 Impedance of...



READ ONLINE
[7.34 MB]

Reviews

Absolutely essential read publication. It is amongst the most incredible book i have study. Your lifestyle period will be convert when you full reading this ebook.

-- Dr. Meaghan Streich V

The most effective pdf i possibly study. It can be rally exciting throgh reading through period of time. Your lifestyle span is going to be transform when you total reading this book.

-- Christop Ferry