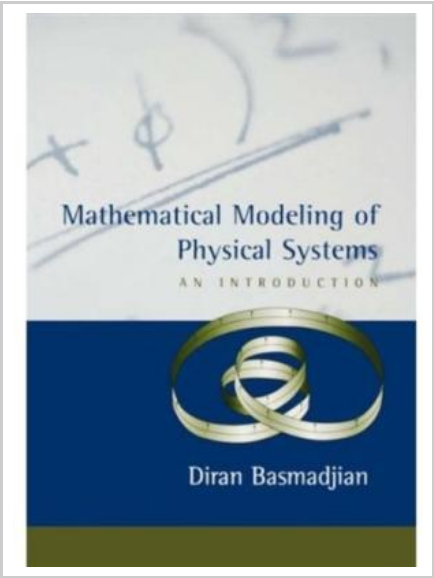

Mathematical Modeling of Physical Systems: An Introduction (Engineering & Technology)

By Basmadjian, Diran

Oxford University Press, 2002. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PrefaceNotation1. Getting Started and Beyond1.1. When Not to ModelExample 1.1. The Challenger Space Shuttle DisasterExample 1.2. Loss of Blood Vessel Patency1.2. Some Initial Tools and Steps1.3. ClosureExample 1.3. Discharge of Plant Effluent into a RiverExample 1.4. Electrical Field Due to a DipoleExample 1.5. Design of a ThermocoupleExample 1.6. Newton''s Law for Systems of Variable Mass: A False Start and the RemedyExample 1.7. Release of a Substance into a Flowing Fluid: Determination of a Mass Transfer CoefficientPractice Problems2. Some Mathematical Tools2.1. Vector Algebra2.1.1. Definition of a Vector2.1.2. Vector Equality2.1.3. Vector Addition and Subtraction2.1.4. Multiplication by a Scalar m2.1.5. The Scalar or Dot Product2.1.6. The Vector or Cross ProductExample 2.1. Distance of a Point from a PlaneExample 2.2. Shortest Distance Between Two LinesExample 2.3. Work as an Application of the Scalar ProductExample 2.4. Extension of the Scalar Product to n Dimensions: A Sale of StocksExample 2.5. A Simple Model Economy2.2. Matrices2.2.1. Types of Matrix2.2.2. The Echelon Form, Rank r2.2.3. Matrix Equality2.2.4. Matrix AdditionExample 2.6. Acquisition Costs2.2.5. Multiplication by a Scalar2.2.6. Matrix MultiplicationExample 2.7. The Product of Two MatricesExample 2.8. Matrix-Vector Representation of Linear Algebraic...

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