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Autore	Dörre, Achim
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Altri autori (Persone)	Emura, Takeshi
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Autore	Prakash Arun J
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Altri autori (Persone)	GhoshDilip K
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Nota di contenuto	Cover; Half Title; Title; Copyright; Contents; Preface; SECTION ONE MATHEMATICAL FOUNDATION; CHAPTER ONE MATHEMATICAL FOUNDATION; Introduction; Organization of the Text; Basic Mathematical Tools; Introduction to Geometric Series; Introduction to Arithmetic Series; The Meaning of the Number e; Exponential Functions and Logarithmic Functions; Basic Differential Calculus; Taylor's Theorem; Problems; Summary; SECTION TWO TIME VALUE OF MONEY; CHAPTER TWO THE TIME VALUE OF MONEY-CONVENTIONS AND DEFINITIONS; Conventions; Summary; CHAPTER THREE SIMPLE RATE OF INTEREST; Future Value of an Amount Present Value of an Amount Definition of an Annuity; Future Value of an Annuity; Present Value of an Annuity; Problems with Solutions on Simple Rate of Interest; Summary; CHAPTER FOUR THE TIME VALUE OF MONEY WITH ANNUAL COMPOUNDING; Future Value of an Amount; Present Value of an Amount; Determining Target Interest Rates and Periods; Finding the Unknown Period; Finding the Unknown Rate of Interest; Summary; CHAPTER FIVE TIME VALUE OF MONEY WITH AN ANNUITY; Future Value of an Annuity; Present Value of an Annuity;

## Present Value of Perpetuity

Mathematical Relationship between Present and Future Value of an Annuity; Finding Unknowns k and n in Case of Annuities; Summary; CHAPTER SIX THE TIME VALUE OF MONEY WITH MULTIPLE COMPOUNDING PERIODS PER YEAR; Future Value of an Amount; Present Value of an Amount; Future Value of Annuity; Present Value of Annuity; Five-Minute Mathematics of Time Value of Money; CHAPTER SEVEN CONTINUOUS COMPOUNDING; Time Value of Money under Continuous Compounding; Summary; CHAPTER EIGHT SPECIAL TOPICS IN TIME VALUE OF MONEY; Obtaining the Time Value of Money for Fractional Periods

Computing the Present and Future Values of the Deposits Which Start m Periods HenceDeposits (or Dividends or Any Future Income or Expense) Growing at a Constant Rate,  $g$ ; A Simple Procedure to Amortize a Loan; Finding Time Value of Money Using Financial Calculators; Summary; CHAPTER NINE SPECIAL TOPICS IN FINANCE; Time Value of Money: The Case of Arithmetic and Geometric Growth and Their Applications; Present Value of a Series of Cash Flow with Finite and Infinite Geometric Growth; Present Value of Cash Flows with Arithmetic Growth; Special Cases under Arithmetic Growth

Application of Arithmetic and Geometric GrowthTime Value of Money Formulas; Time Value of Money Problems (Chapters 2 to 9); Suggested Readings; SECTION THREE COMMERCIAL MATHEMATICS; CHAPTER TEN COMMERCIAL MATHEMATICS-I; The Generalized Loan-Pricing Model; From Borrower's Point of View; From Lender's Point of View; Computational Problems: Commercial Mathematics; CHAPTER ELEVEN COMMERCIAL MATHEMATICS-II; Add-On Interest Loans; A Very Important Point; Repayment Plans on Loans; Level Principal and Interest on the Balance Loans; Computational Problems: Commercial Mathematics

Additional Problems: Commercial Mathematics

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### Sommario/riassunto

Ideal for college students in intermediate finance courses, this book uniquely applies mathematical formulas to teach the underpinnings of financial and lending decisions, covering common applications in real estate, capital budgeting, and commercial loans.

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