

Chapter 5 Contemporary Engineering Economics Park 5th Edition

Chapter 5 Contemporary Engineering Economics Park 5th Edition Chapter 5 Contemporary Engineering Economics Park 5th Edition Chapter Title Time Value of Money Chapter Objectives Understand the fundamental concepts of the time value of money Calculate future and present values of single amounts and annuities Apply compound interest and discount rate concepts to various engineering economic problems Analyze investment alternatives using different compound interest rates Recognize the importance of inflation and its impact on financial decisions Key Concepts Time Value of Money The principle that money available at the present time is worth more than the same amount in the future due to its potential earning capacity Interest Rate The cost of borrowing or the return on investment expressed as a percentage of the principal Compound Interest Interest earned not only on the principal but also on accumulated interest Discount Rate The rate used to calculate the present value of future cash flows Single Amount A single payment or receipt at a specific point in time Annuity A series of equal payments or receipts over a specified period Future Value The value of an investment at a future point in time Present Value The current value of a future amount discounted to the present Inflation The rate at which the purchasing power of money decreases over time Chapter 1 Define and explain the concept of the time value of money Highlight the importance of understanding this concept in engineering economic analysis Introduce the key terms and concepts related to time value of money 2 2 Simple and Compound Interest Explain the difference between simple interest and compound interest Provide formulas for calculating both types of interest Illustrate the impact of compound interest on investment growth 3 Future Value Calculations Introduce the concept of future value and its application in engineering economics Provide formulas for calculating the future value of a single amount and an annuity Illustrate the use of future value calculations in various scenarios such as investment analysis and loan repayment 4 Present Value Calculations Introduce the concept of present value and its application in engineering economics Provide formulas for calculating the present value of a single amount and an annuity Illustrate the use of present value calculations in various scenarios such as project evaluation and equipment replacement 5 Discount Rate and its Role in Decision Making Explain the concept of discount rate and its relationship to interest rate Discuss the factors influencing the choice of discount rate Illustrate the impact of different discount rates on project feasibility 6 Impact of Inflation on Time Value of Money Introduce the concept of inflation and its effect on the purchasing power of money Explain how inflation impacts the time value of money and its implications for financial decisions Discuss strategies for managing inflation risk 7 Applications in Engineering Economics Present various realworld engineering economics problems involving time value of money Demonstrate the use of time value of money concepts to analyze investment alternatives evaluate project proposals and make informed financial decisions 8 Conclusion Summarize the key points discussed in

the chapter Highlight the importance of understanding the time value of money in engineering economic analysis Encourage further exploration of the topic through additional resources and practical applications 3 Examples and Case Studies Calculate the future value of a 10000 investment after 5 years at a 6 annual compound interest rate Calculate the present value of a 100000 payment due in 10 years at a 5 discount rate Evaluate two investment options with different cash flows and interest rates to determine the most profitable alternative Analyze the impact of inflation on the real rate of return on an investment Problem Sets and Exercises Provide a range of practice problems covering various aspects of the time value of money Include problems involving single amounts annuities compound calculations Encourage students to apply the concepts learned to realworld engineering economic problems Learning Resources Online calculators and spreadsheets for time value of money calculations Financial textbooks and articles related to engineering economics Case studies and realworld examples of applications of time value of money in various engineering disciplines By covering these key concepts and providing practical examples this chapter equips readers with a comprehensive understanding of the time value of money and its importance in making sound financial decisions in the field of engineering

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