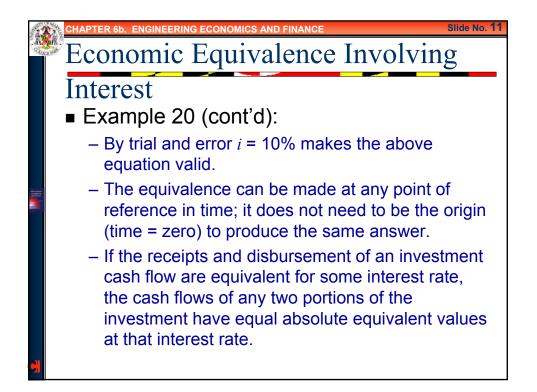
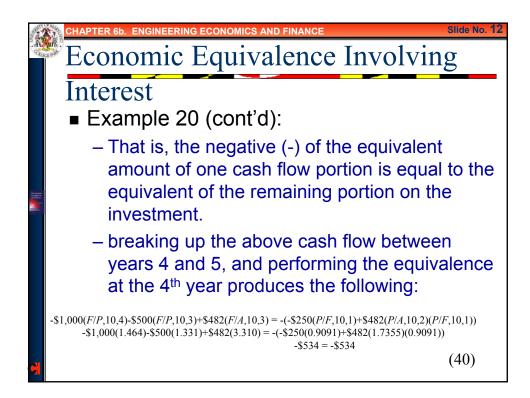
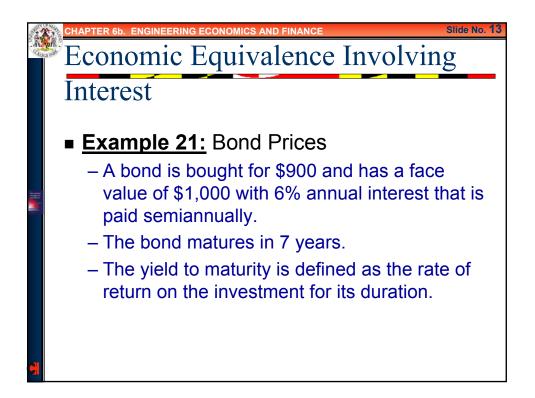
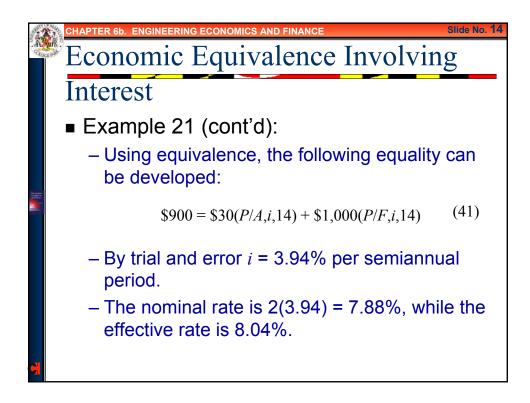


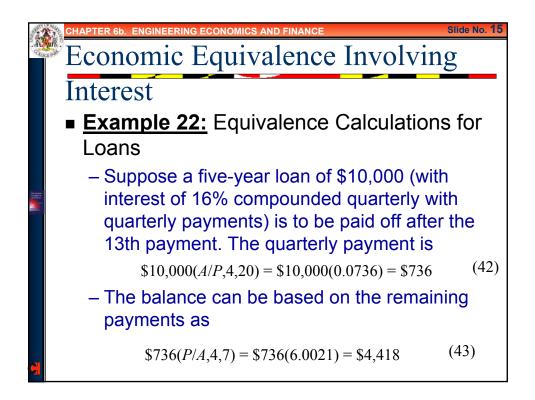
| P.S. | CHAPTE | R 6b. ENGINEERING ECO | DNOMICS AND FINA | NCE | Slide No. 10 | |
|--|----------------------------------|-----------------------|------------------|--------------------|--------------|--|
| .A. | Economic Equivalence Involving | | | | | |
| | Interest Example 20 (cont'd): | | | | | |
| Table 6. Converting Cash Flow to its Present Value | | | | | | |
| 222 | | Time (Year End) | Receipts (\$) | Disbursements (\$) | | |
| | | 0 | 0.00 | -1000.00 | | |
| | | 1 | 0.00 | -500.00 | | |
| | | 2 | 482.00 | 0.00 | | |
| | | 3 | 482.00 | 0.00 | | |
| | | 4 | 482.00 | 0.00 | | |
| | | 5 | 0.00 | -250.00 | | |
| | | 6 | 482.00 | 0.00 | | |
| | | 7 | 482.00 | 0.00 | | |
| G | | <u></u> | | | | |

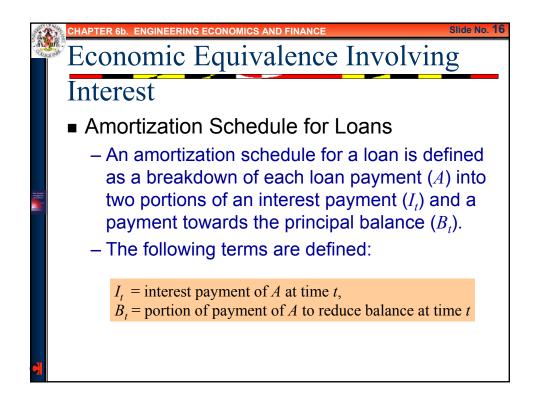


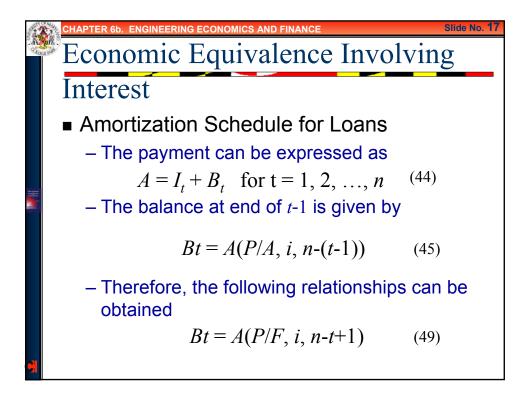


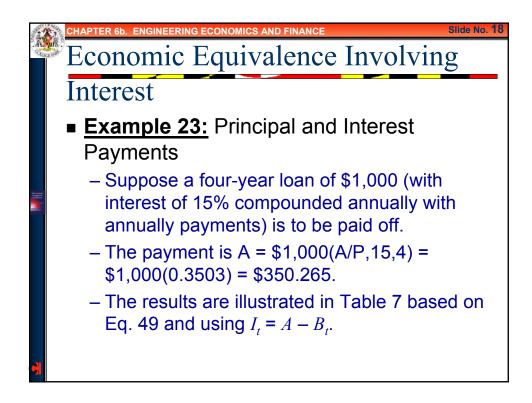




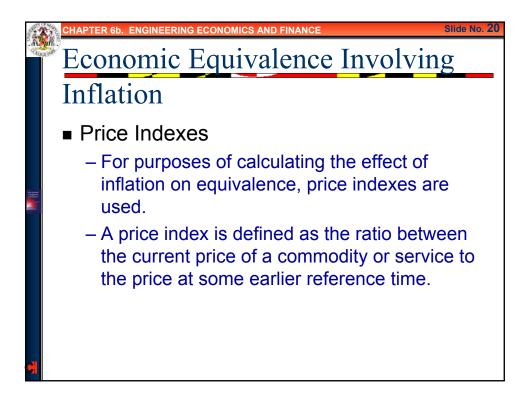


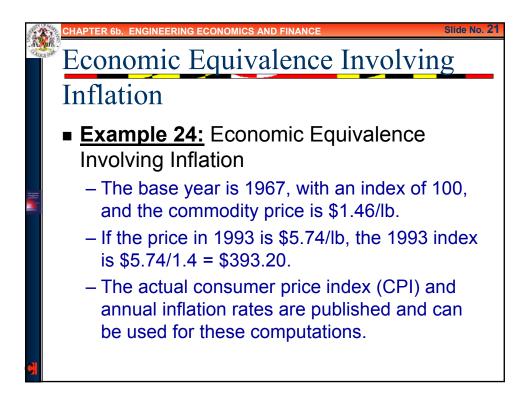


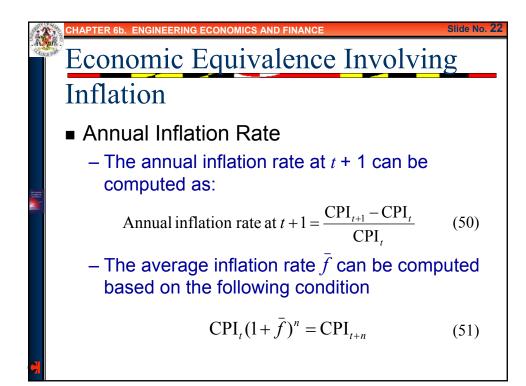


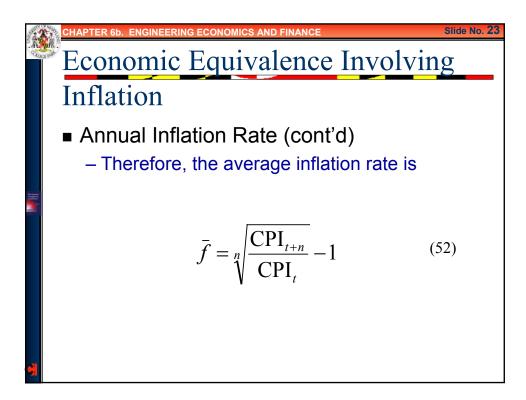


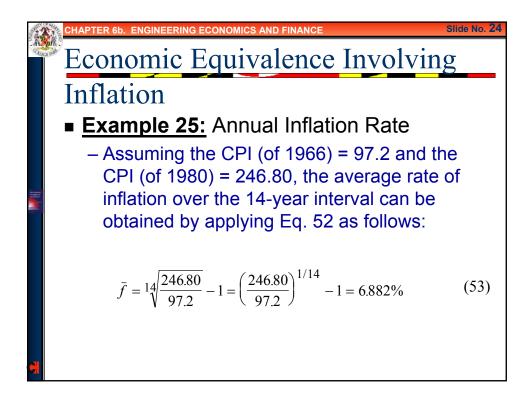
| Inter | rest | | |
|--------------------------------------|-------------------------|--|--------------------------|
| Example 23 (cont'd): | | | |
| Table 7. Calculations for Example 23 | | | |
| Year End | Loan Payment (\$) | Payment towards Principal (B_i) | Interest Payment (I_i) |
| 1 | \$350.265 | \$350.265(<i>P</i> / <i>F</i> , 15, 4) = \$200.27 | \$150.00 |
| 2 | \$350.265 | \$350.265(<i>P</i> / <i>F</i> , 15, 3) = \$230.30 | \$119.97 |
| 3 | \$350.265 | \$350.265(<i>P</i> / <i>F</i> , 15, 2) = \$264.85 | \$85.42 |
| 4 | \$350.265 | \$350.265(<i>P</i> / <i>F</i> , 15, 1) = \$304.58 | \$45.69 |
| Total | \$1,401.06 | \$1,000.00 | \$401.06 |

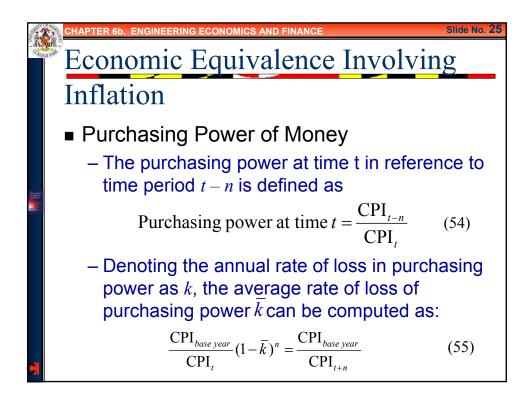


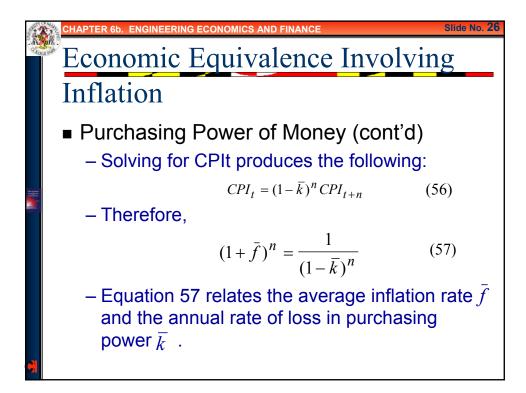


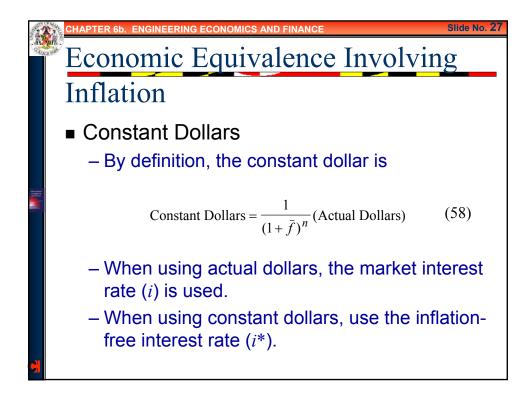


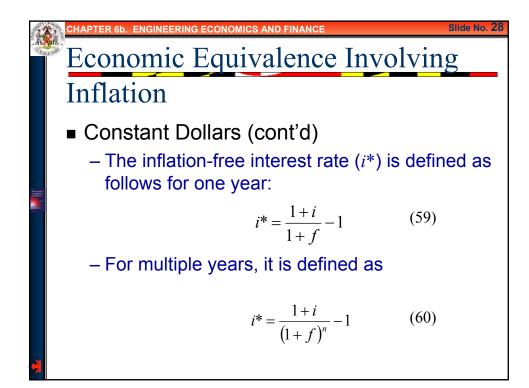


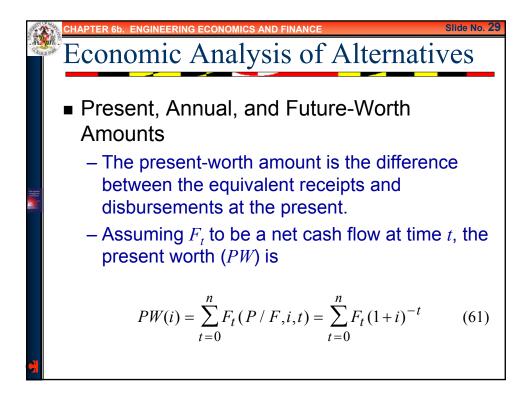


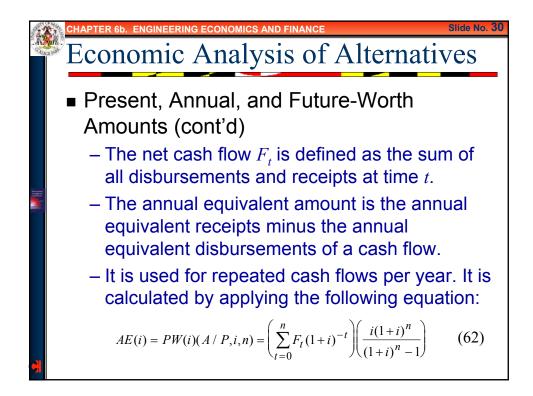


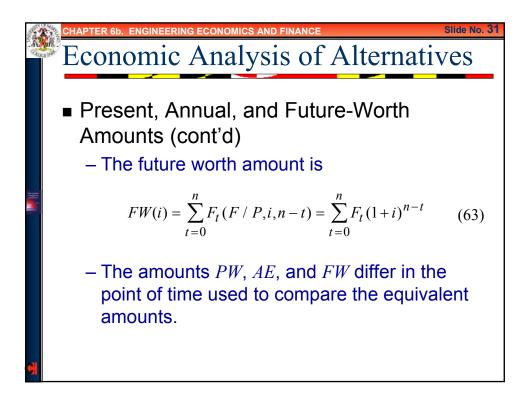


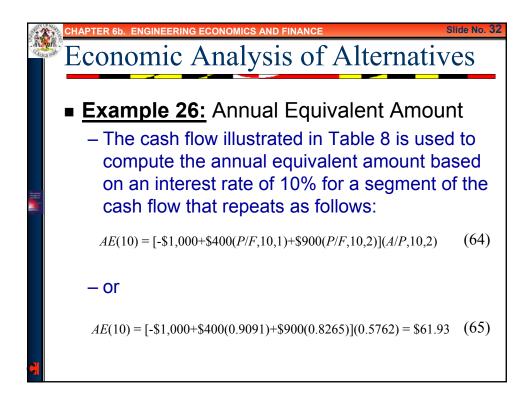




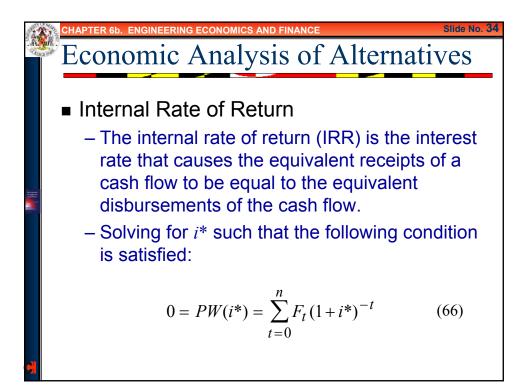


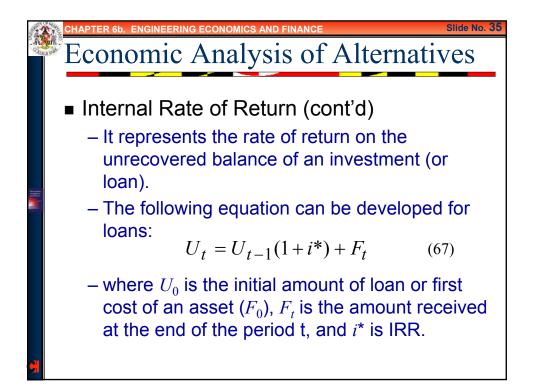


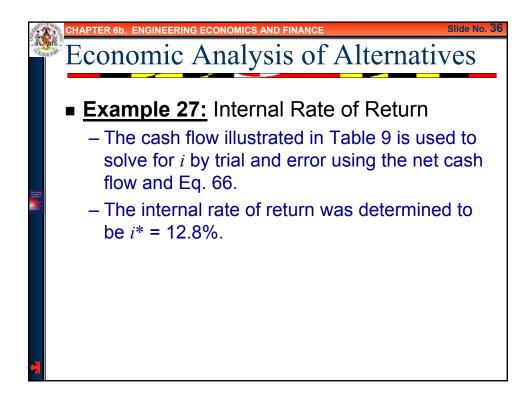




| | CHAPTER 6b. ENGINEERING ECONOMICS AND FINANCE Economic Analysis of Alternatives Example 26 (cont'd): | | | | | |
|---|--|-------------|---------------|--------------------|--|--|
| | | | | | | |
| | Table 8. Cash Flow for Example 26 | | | | | |
| | | Year End | Receipts (\$) | Disbursements (\$) | | |
| H | | 0 | 0.00 | -1,000.00 | | |
| | | 1 | 400.00 | 0.00 | | |
| | | 2 | 900.00 | -1,000.00 | | |
| | | 3 | 400.00 | 0.00 | | |
| | | 4 | 900.00 | -1,000.00 | | |
| | | : | : | : | | |
| | | <i>n</i> -2 | 900.00 | -1,000.00 | | |
| | | <i>n</i> -1 | 400.00 | 0.00 | | |
| | | п | 900.00 | 0.00 | | |
| | | n | 900.00 | 0.00 | | |







| Economic Analysis of Alternativ | | | | | | |
|---------------------------------|---------------------|--------------|------------------|--------------------|--|--|
| | Example 27 (cont'd) | | | | | |
| | | Table 9. Cas | h Flow for Examp | le 27 | | |
| | | Year End | Receipts (\$) | Disbursements (\$) | | |
| | | 0 | 0.00 | -1000.00 | | |
| | | 1 | 0.00 | -800.00 | | |
| | | 2 | 500.00 | 0.00 | | |
| | | 3 | 500.00 | 0.00 | | |
| | | 4 | 500.00 | 0.00 | | |
| | | 5 | 1200.00 | 0.00 | | |
| | | <u> </u> | | | | |
| | | | | | | |
| | | | | | | |

