PRINCIPLES OF FINANCIAL AND MANAGERIAL ACCOUNTING II

Capital Budgeting

evaluating proposed capital expenditures

What is a capital expenditure?

'Additio expected E <mark>xpend</mark> i	hapter 10, page 470: ns and improvements are costs incurred to increase the ope i useful life of the plant asset. These expenditures are usual itures for additions and improvements increase the comp generally debited to the plant asset affected. They are o	ly material i pany's inves	n amount and oc tment in produ	cur infrequently.
ndividuals hey mode: 19% in ord exceeds the The proces choosing a	napter 26, page 1205: s make capital expenditures when they buy a new home, car, or television ruize plant facilities or expand operations Union Pacific Resources Greater to use the funds to reduce its outstanding debt. In business, as for indirections available for such expenditures. Thus, the resources available must of making capital expenditure decisions in business is known as mong various capital projects to find the one(s) that will maximize a control bought a new	up Inc. announ viduals, the amost st be allocated of pany's return of	ced that it would cut ount of possiblecapit (budgeted) among th	its capital budget by all expenditures usuall competing alternative
Date	Account Title	Ref	Debit	Credit
14	Asset? or Expense?		6,900	
	Cash			6,900
	debiting an i	s a capita	ıl expenditure	-
ļ-	Annual Rate of Return neasure of anticipated profitability of investment alternative	of Return	<u>!</u>	

Annual Rate of Return measure of anticipated profitability of investment alternative average annual net income average cost * Book Value

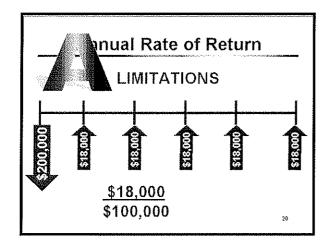
measure of anticipated ______ of an investment alternative

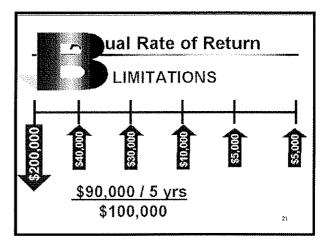
Three ways to determine "average cost":

- 1. Sum book value each year and divide by number of years.
- 2.
- 3.

Limitations of Annual Rate of Return:

- 1. timing of _____
- 2. timing of _____





Cash Payback Period

time required to _____

Cash coming in (revenue)

Cash going out (expense)

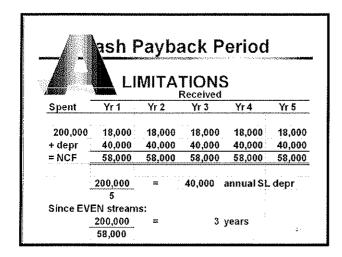
Revenue Expense

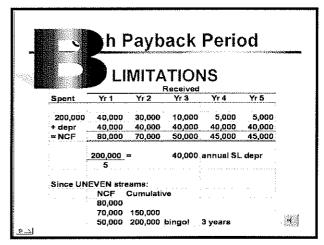
- 1

Even "Streams"

Uneven "Streams"

ignores overall ______, cash flow _____, and cash flow beyond the payback period.





Discounted Cash Flow: Net Present Value Method

compares present value of _ (already in today's dollars)		with proposed outlay
is	built into the computation.	
When there is anit	of future NCF over the	
<u>IS</u> an	alternative.	

NCF	X	PV	factor		PV of NCF
				-	PV of expenditure
acceptable			+ or 0		
not			otable		

(A demonstration exercise is on the next page.)

Capital Budgeting page 3 of 4

Capital Investment Analysis

Victory Company is considering the acquisition of machinery at a cost of \$750,000. The machinery has an estimated life of 5 years and no residual value. It is expected to provide yearly income of \$37,500 and yearly net cash flows of \$187,500. The company's minimum desired rate of return for discounted cash flow analysis is 6%. Compute the following:

(a)	The annual rate of return.					
		=	\$ \$		=	 _%
(b)	The cash payback period.					
		m	\$ \$		=	 _ years

(c) The excess (deficiency) of present value over the amount to be invested using the net present value method. Use the table of "Present Value of 1" in the appendix (and use the "memory" on your calculator).

<u>Year</u>	Net Cash Flow	<u>Factor</u>	PV of NCF
1	\$		\$
2			
3		***************************************	
4			
5			<u> </u>
Total			\$
Propose	d expenditure		
Excess			\$