





















and and	CHAPTER 4t	D. MAKING CHOICES	Slide No. 11		
- A	Calcu	lations Steps of Risk Profiles	s #2		
(cont'd) <u>2- Second step in collapsing the decision tree to make a risk profile.</u> The third chance nodes have been collapsed into <u>one chance node</u> . The probabilities on the branches are the product of the probabilities from sequential branches					
	Counteroff \$5 Billior	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	lement <u>t (\$ Billion)</u> 2 5 10.3 5 0 10.3 5 0		







En al	CHAPTER 4b. MAKING C	CHOICES Slide No	o. 15		
- AL	Interpretat	tion of Risk Profile #2	ssakkaf		
	Probability Calculations (cont'd)				
	For example how did we get \$10.3?				
Ŷ	 Only 2 end nodes with \$10.3, can add up the probabilities for each branch, why? (Because they have the same settlement value of \$10.3) 				
Bockury Thoreand Liperolog	\$10.3	<u>Branch #1</u> $0.50 \times 0.2 = 0.100$			
	Billion	n and a second			
		Branch #2 $0.33 \times 0.2 = 0.066$			
		0.166 (16.6%)			



E		CHAPTER 4b. MAKING	CHOICES	Slic	le No. 17
- 41. 944	a mat	Calculati	ons Steps	of Risk Profile	#3
		\$0 B	Branch #1	$0.50 \times 0.3 = 0.15$	
		\$3 B	Branch #1	0.33	
		\$5 B	Branch #1 Branch #2	$\begin{array}{c} 0.17\\ 0.50 \times 0.5 = 0.25\\ 0.42 \end{array}$	
$\frac{2}{11}$		\$10.3 B	Branch #1	$0.5 \times 0.2 = 0.10$	
		Prob. 0.15	0.33 0.42 24 x (\$	0.10 1 1 1 6 8 10 12 Billion)	















Per s	CHAPTER 4b. MAKING CHOICES Slide No. 25	
	Stochastic Dominance	
	 (Probabilistic Dominance) In some situations the two alternatives that offer the same possible consequences, but the dominating alternative is more likely to bring a better consequence. 	
	 Deterministic dominance is a special case of stochastic dominance. 	C
	Sometimes stochastic dominance may emerge as a mixture of the two; both <u>slightly better payoffs and slightly better</u> <u>probabilities</u> may lead to one alternative dominating another.	
	Stochastic dominance is represented in the cumulative risk profiles by the fact that the two profiles do not cross and that there is some space between them.	0
	That is, if two cumulative risk profiles are such that no part of Profile A lies to the left of B, and at least some part of it lies to the right of B, then the strategy corresponding to Profile A stochastically dominates the strategy for Profile B.	

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1.00
0.834
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0.249









































