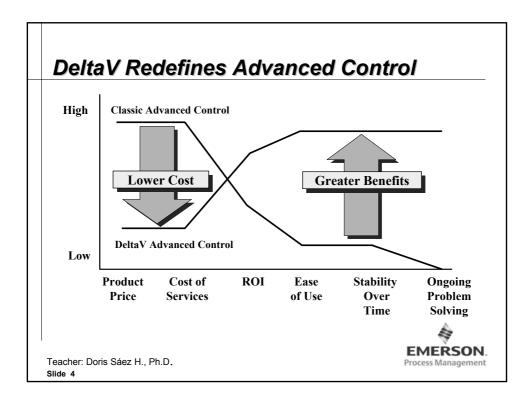
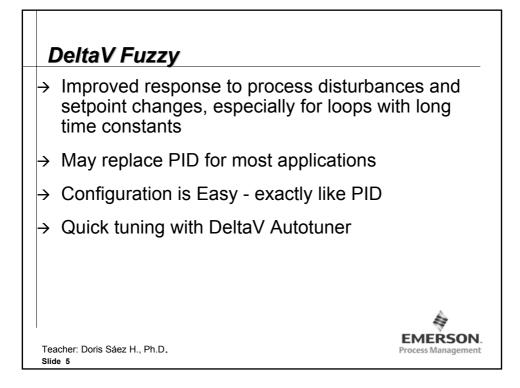
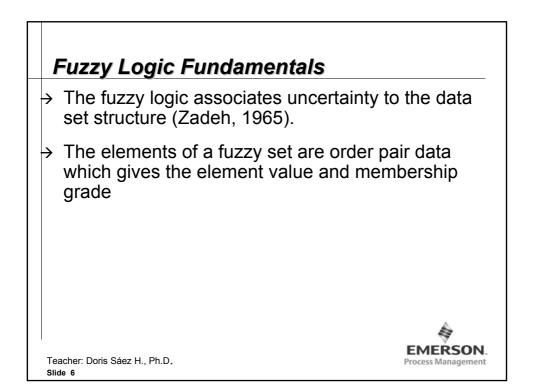
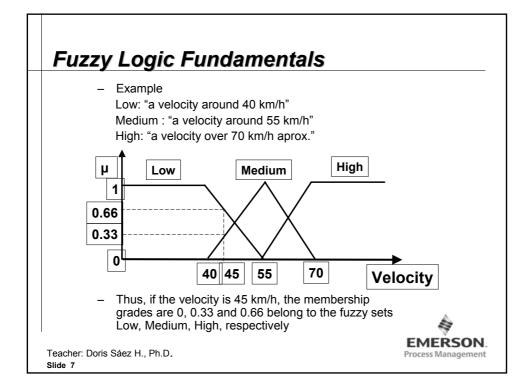


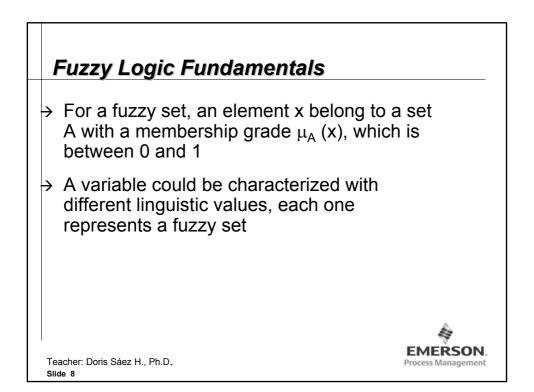
Slide 3

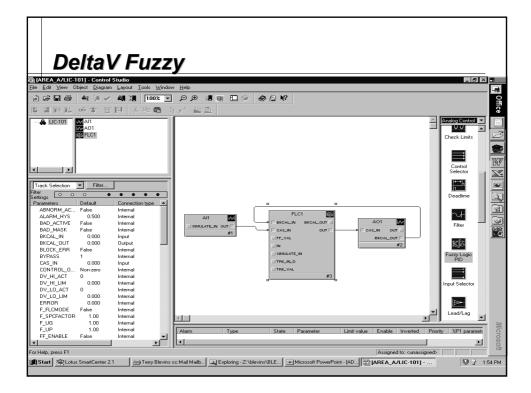


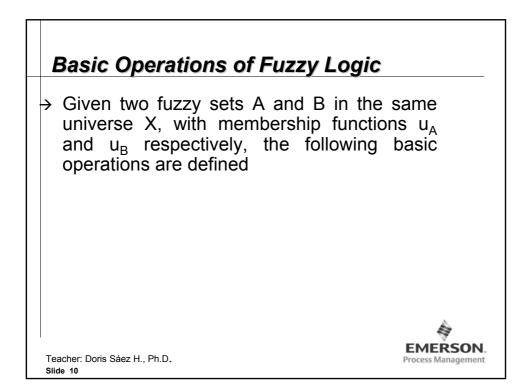


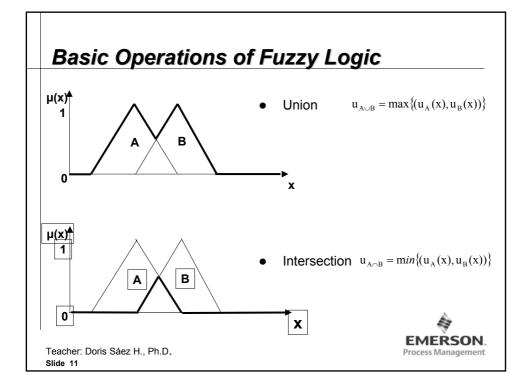


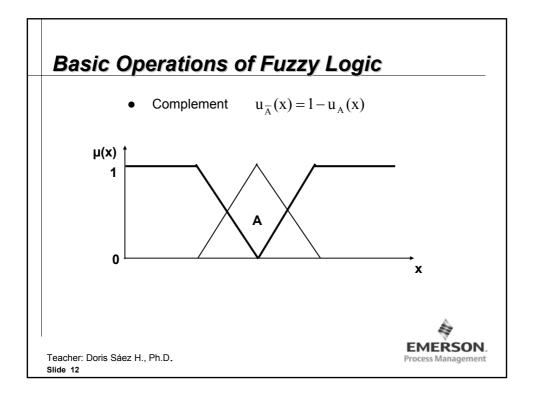


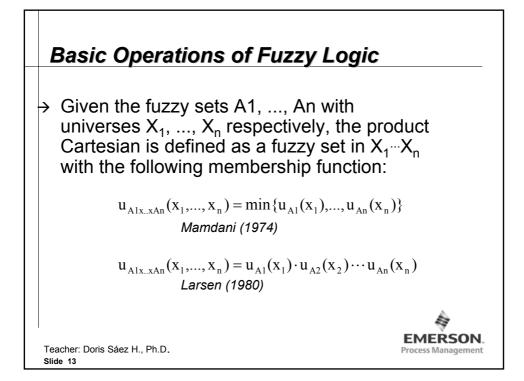


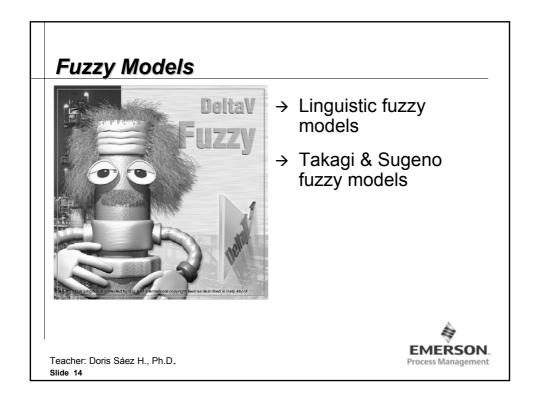


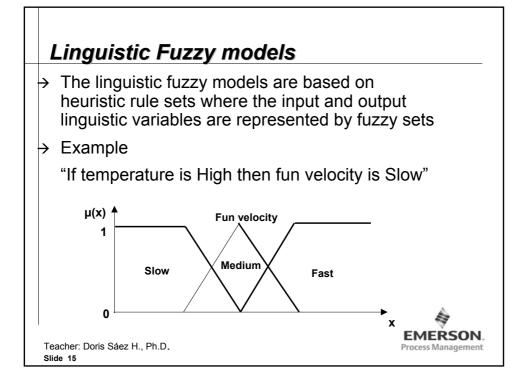


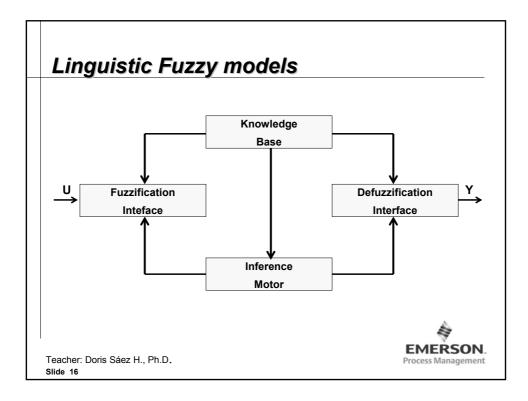


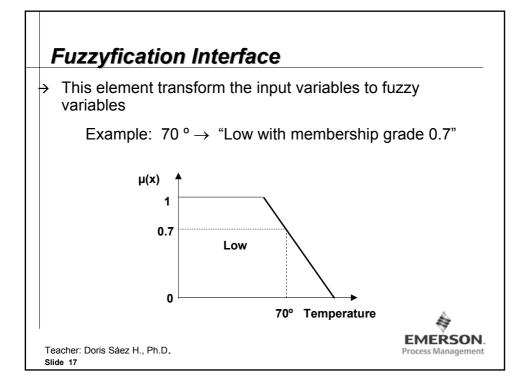


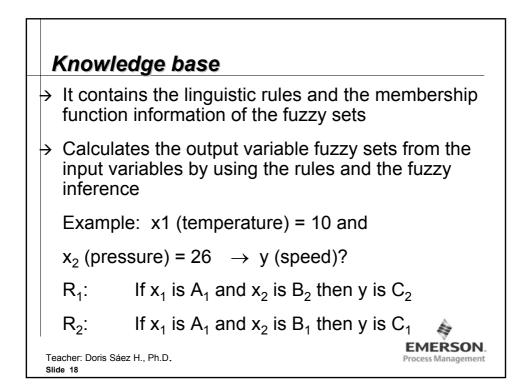


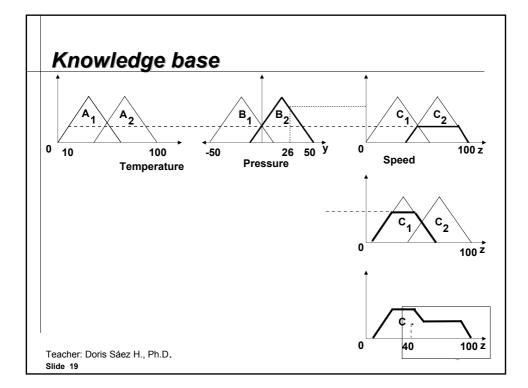


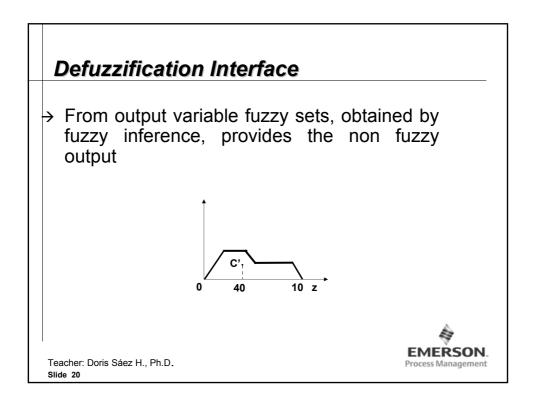


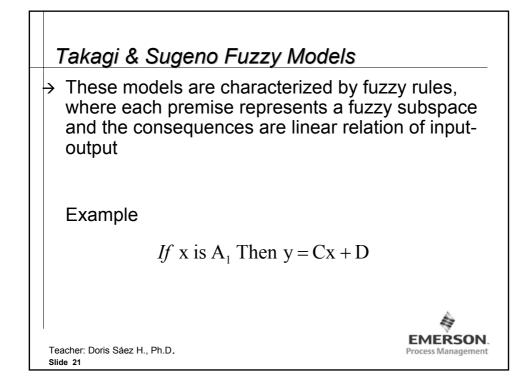


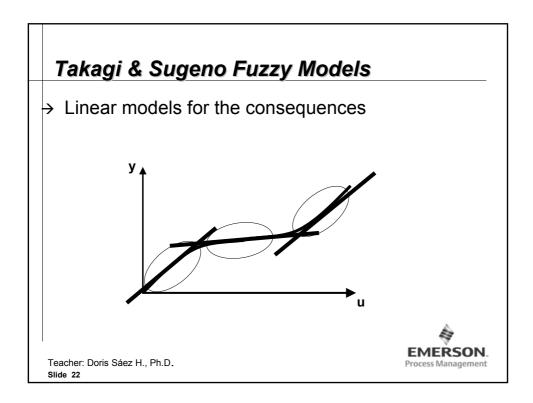


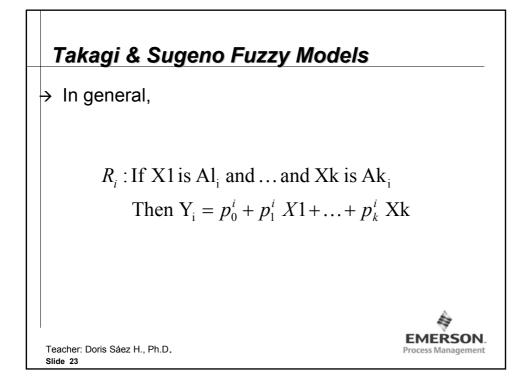


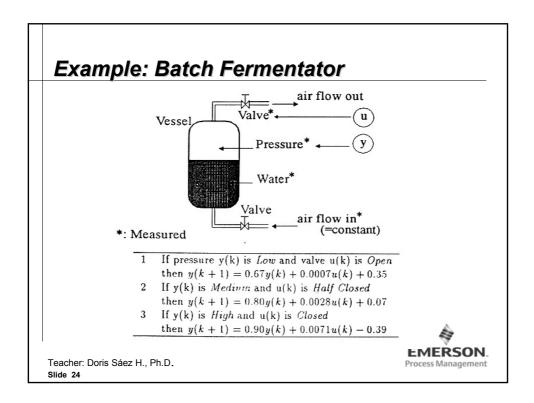


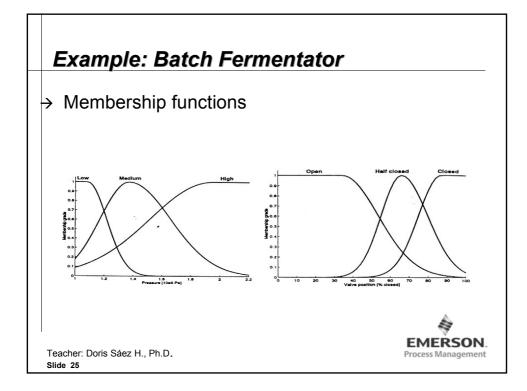


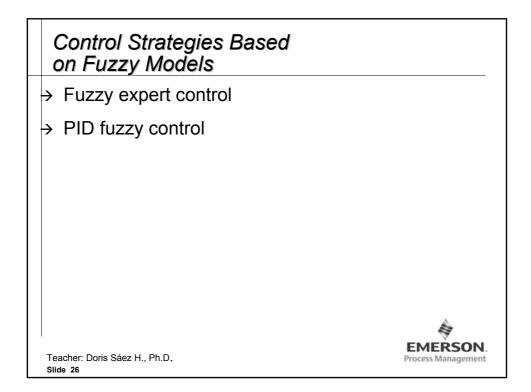


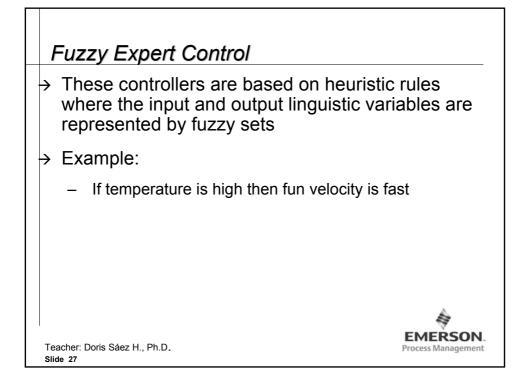


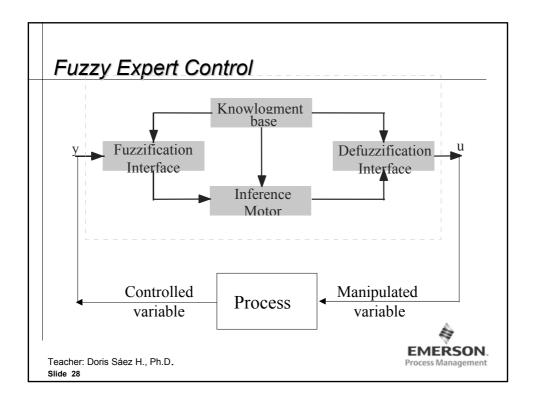


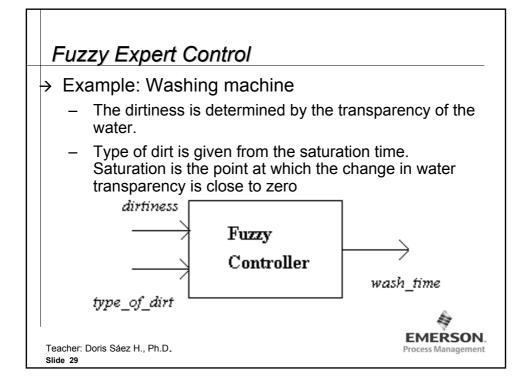


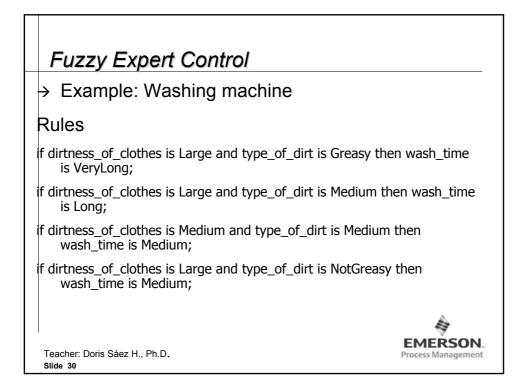


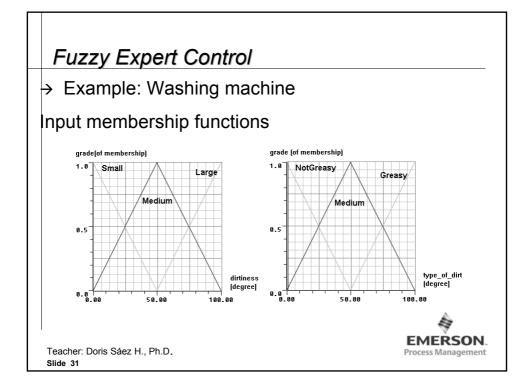


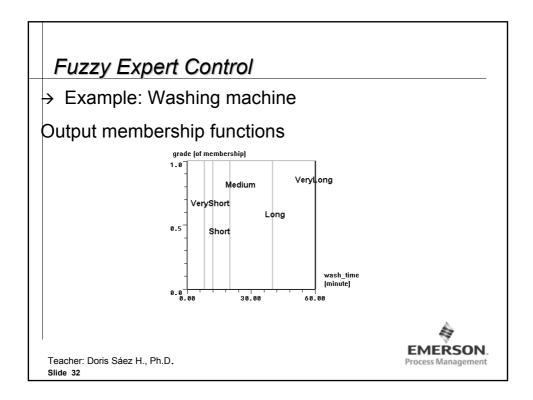


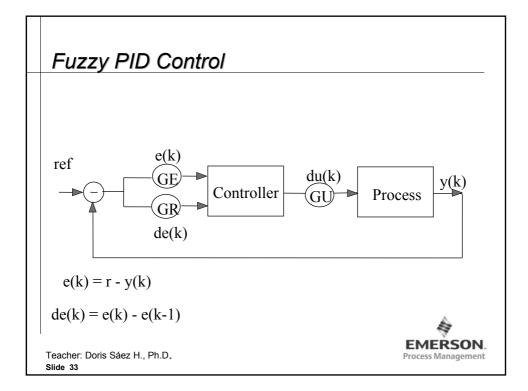


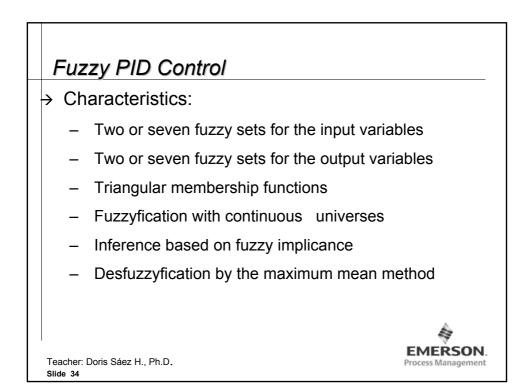


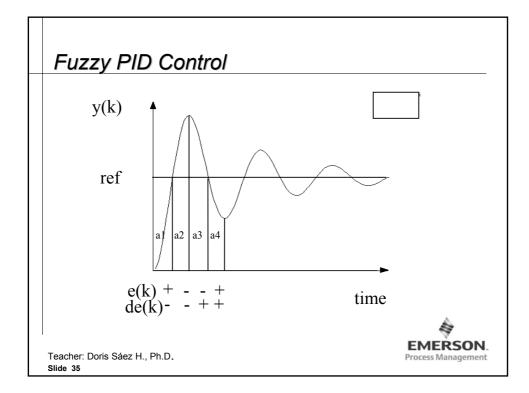




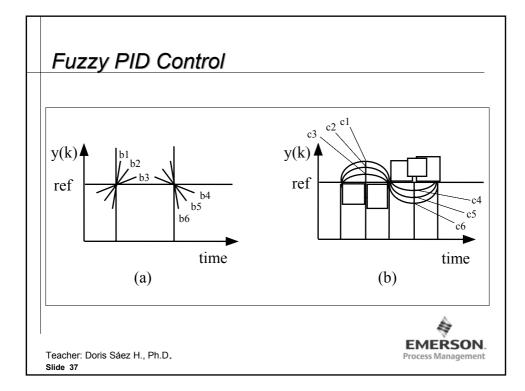








a1 a2 a3 a4	e(k) de(k) >0 <0 <0 <0 <0 >0 >0 >0 >0 >0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} de(k) e(k) \\ \hline c1 &= 0 &<< 0 \\ c2 &= 0 &<< 0 \\ c3 &= 0 &< 0 \\ c4 &= 0 &> 0 \\ c5 &= 0 &>> 0 \\ c6 &= 0 &>>> 0 \end{array}$
Teacher: Doris Slide 36	Sáez H., Ph.D.		EMERSON Process Management



Fuzzy	Fuzzy PID Control									
					de(k)					
		NB	NM	NS	ZE	PS	PM	PB		
	NB	a2	a2	a2	c1	a3	a3	a3		
	NM	a2	a2	a2	c2	a3	a3	a3		
	NS	a2	a2	a2	c3	a3	a3	a3		
e(k)	ZE	b1	b2	b3	ZE	b4	b5	b6		
	PS	a1	al	al	c4	a4	a4	a4		
	PM	a1	al	al	c5	a4	a4	a4		
	PB	al	a1	al	c6	a4	a4	a4		
			I				I			
									A	
									EMERSON	
Teacher: Doris Sáez H., Ph.D. Slide 38							Process Management			

Fuzzy PID Control										
					de(k)					
		NB	NM	NS	ZE	PS	PM	PB		
	NB	NB	NB	NB	NB	NM	NS	ZE		
	NM	NB	NB	NM	NM	NS	ZE	PS		
	NS	NB	NM	NS	NS	ZE	PS	PM		
6	e(k) ZE	NM	NM	NS	ZE	PS	PM	PM		
	PS	NM	NS	ZE	PS	PS	PM	PB		
	PM	NS	ZE	PS	PM	PM	PB	PB		
	PB	ZE	PS	PM	PB	PB	PB	PB		
en	the erro ror is Po riable is _{Sáez H., Ph.D}	sitive Posii	Мес	lium	then t			ent c E		

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