





















































	Гwo levels fo	r aach faa	tor			
•	I wo levels it	or each fac	lor			
	Simulation ru combinations		-	ible factor	-level	
	Specify a reas				ive factor th	nat are
I	neaningful o	ptions for	qualitative	factor		
• 1	Example: 2^3 f	factorial de	vian			
• 1	Example. 2° 1		sign			
	Factor Combination (Design point)	Factor 1	Factor 2	Factor 3	Response	
	1	+	+	+	R ₁	
		+	+	-	R ₂	
	2	+				
	2 3	+ +	-	+	R3	
	_		-	+	R3 R4	
	3 4 5	+	- - +	+ - + +	-	
	3 4 5 6	+	- - + +	-	R4	
	3 4 5	+		-	R4 R5	

be co • Ch	es the number of factors gets larger, a full 2 ^k factorial design ecome unmanageable and requires considerable omputational efforts hoose a certain subset of all 2 ^k possible design points if p=1, half fraction: if p=2, fourth fraction, and so on. xample: 2 ⁴⁻¹ fractional factorial design with one replication						
20	-						
	Factor Combination (Design point)	Factor 1	Factor 2	Factor 3	Factor 4	Response	
	Combination	Factor 1	Factor 2	Factor 3	Factor 4		_
	Combination	Factor 1 - +	Factor 2 -		Factor 4 - +	Response	-
	Combination (Design point) 1	-	Factor 2 - - +			R ₁	
	Combination (Design point) 1 2	-	-		- +	R ₁ R ₂	
	Combination (Design point) 1 2 3	- + -	- - +		- +	R ₁ R ₂ R ₃	
	Combination (Design point) 1 2 3 4	- + -	- - +		- + + -	R ₁ R ₂ R ₃ R ₄	
	Combination (Design point) 1 2 3 4 5	- + - + -	- - +	- - - +	- + + -	R ₁ R ₂ R ₃ R ₄ R ₅	























	Extend Model Basics – <u>Connectors & Connections</u>	
•	Connectors Information flow into/out a block Attached to each side of block Input/Output connector by pre-defined functions Item Input Connector Value Input Connector Item Output Connector	
Coi	nnections Connecting lines to hook blocks together Show the information flow from block to block During the simulation, the flow proceed along the path of connections repetitive	ly
	Value Connection Item Connection	
KAIST	한국과학기술원	41



















Saving a Model As	
Service Center Service Center Service Center Service Center Service Center Service Center Print Crit+N Export Data Export Data Fint Crit+P Add the file name into the File name campe: Save Model 1:mox File menu Add the file name into the File name Save as type: Model(:.mox)	?× ★ € ☆ ⊞- Save V Cancel
• Click Save button	51

	Simulation S	
	imulation will run and for hov te Event/Continuous as well a	w long as Random Numbers/Time Unit
Simulation End Time	۲ (Sinutarian Setup Discrete event Continuous] Random numbers] T	Simulation Start Time
	End simulation at time 30 Start simulation at time 0 Number of rune 1	Run Now OK Cancel Simulation Time Unit
Number of Simulation Run	Generic View Gener	- Select a time unit from the pull down menu
	Comments Days Weeks Months Vears	



