







Cidge nössische Technische Hor Swiss. Federall Institute of Tech	chuchulle Zühlch nolegy Zuhlch	Rathematical Modeling of Physic	al Systems	
• Reaction k_2 contains a temperature dependence $K(T)$ that was experimentally found:				
	Abs. Temperature T [K]	Equilibrium Const. K [mole m ⁻³]		
	300.0	7.7446×10^{-29}		
	400.0	1.9543×10^{-20}		
	500.0	2.2182×10^{-15}		
	600.0	5.2844×10^{-12}		
	800.0	1.3807 × 10		
	900.0	2 3768 × 10		
	1000.0	3.2509×10^{-5}		
	1100.0	2.7861×10^{-4}		
	1200.0	1.6788×10^{-3}		
	1300.0	7.6913×10^{-3}		
	1400.0	2.8510×10^{-2}		
	1500.0	8.8716×10^{-2}		
	1600.0	2.4044×10^{-1}		
	1700.0	5.8344×10^{-1}		
	1800.0	1.7947		
	1900.0	2.6061		
	2000.0	4.3431		
• Program $K(T)$ using a table-lookup function.				
December 13, 2012 © Prof. Dr. François E. Cellier Start Presentation				



EFFFF Elige obsische Technische Hochschule Zühlch Eniss-Redend Technische of Technischigg Turlich	Mathematical Modeling of Physical Systems			
• We shall need a <i>table look-up function</i> . We can program it manually.				
Linear interpolation	Procession Procession			
December 13, 2012 © Prof. Dr. François E. Cellier Start Presentation				



























Eftersedusche lechschule zinkn Swiss. kaderal institute of lischrolegy Luich				
Biology And Decker (1990) Biology And Decker (1990)	Image: Section of the section of th			
December 13, 2012 © Prof. Dr. François E. Cellier Start Presentation				









