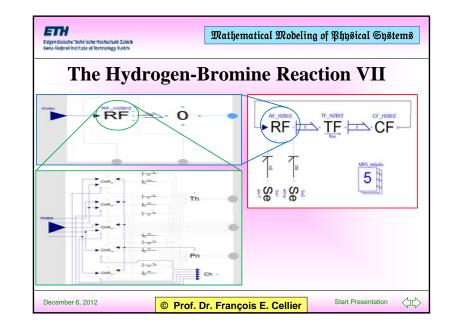
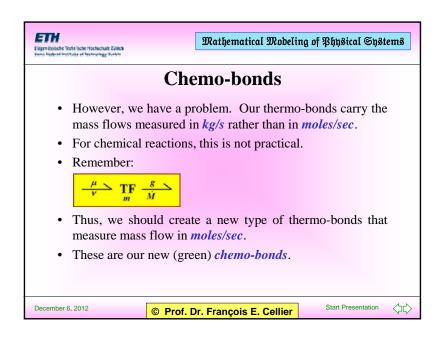
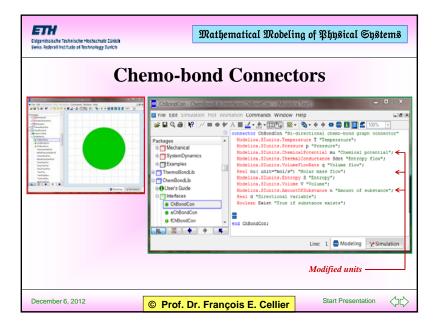
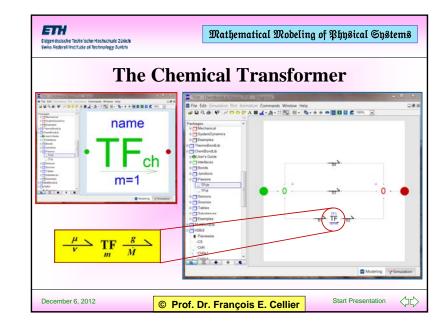


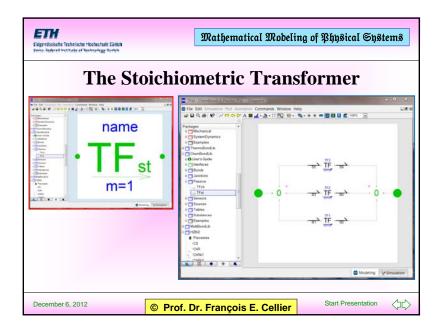
	Thermo-bonds
	have only modeled the mass flows through eaction network.
• Yet, the mass heat flows.	flows are also accompanied by volume and
flows through	ify the models, if we were to model all three the reaction network simultaneously. In that ouldn't need any separate thermal and ts any longer.

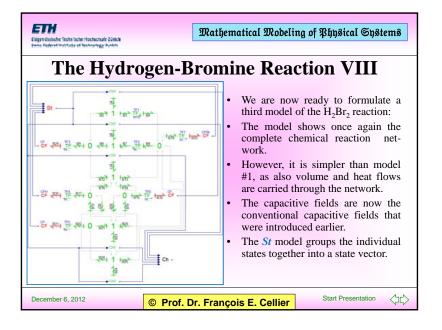


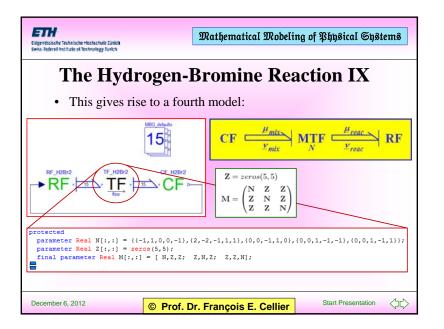


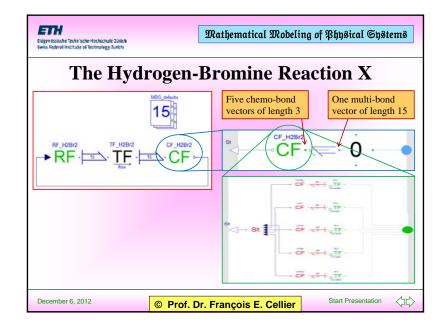


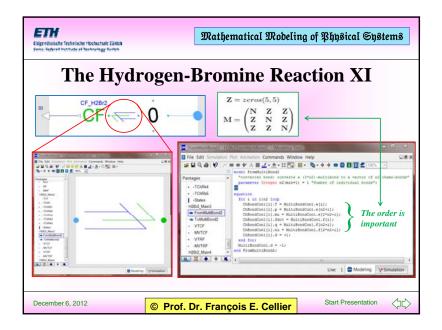


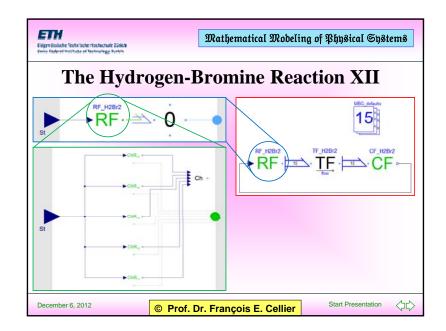












Simulation Efficiency						
 1odel ersion	# original equations	# state variables	# algebraic variables			
1	1195	8	57			
2	1187	8	55			
3	3507	16	72			
4	2835	16	66			

