Meeting: TR 16:40-18:30 XSB 259
Instructor: Shankar B. Rananavare
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Book: Chemical Kinetics and Reaction dynamics
By Paul L. Houston
Grading: 50 % homework, 50% final.

Chemical kinetics provides a mathematical description of dynamic processes by which reactants are transformed into products. These processes, as well as elementary steps involved, are complex and many details are not yet fully understood. This course begins with a classical introduction to the kinetic theory of gases and its application to chemical kinetics. Specific modification of chemical kinetics for gaseous, liquid, and solid state reactions will be discussed. A major portion of class will be devoted to solving problems in the textbook.

Reference Books

2. Reaction kinetics by M. J. Pilling and P. W. Seakins
3. Chemical kinetics and reaction mechanism J. H. Esperson