课程代码（Coursenumber）：

223B.

课程名（Coursename）：

Chemical Dynamics.

学分（credit) ： (3)

课程设置（course setting）：Three hours of lecture per week.

选课要求（prerequisite）：221A, 223A.

课程描述（Description）：Quantum mechanical scattering theory of elastic,

inelastic, and reactive collisions. Electronically non-adiabatic processes. Collision complexes and scattering resonances. Semiclassical scattering

theory for molecular collision. Generalized statistical models for chemical

reactions. (F)

教参信息（Textbookinfo）:

1 Chemical Kinetics and Reaction Dynamics by Paul L. Houston (Paperback - Nov. 17, 2006)

ISBN-13: 978-0486453347

世界各地拥有馆藏的图书馆（OCLC）:51

2 Chemical Kinetics and Dynamics (2nd Edition) by Jeffrey I. Steinfeld, Joseph S. Francisco, and William L. Hase (Paperback - Aug. 20, 1998)

ISBN-13: 978-0137371235

3 Process Dynamics, Modeling, and Control (Topics in Chemical Engineering) by Babatunde A. Ogunnaike and W. Harmon Ray (Hardcover - Nov. 17, 1994)

ISBN-13: 978-0195091199

4 Theories of Molecular Reaction Dynamics: The Microscopic Foundation of Chemical Kinetics (Oxford Graduate Texts) by Niels E. Henriksen and Flemming Y. Hansen (Hardcover - Apr. 7, 2008)

ISBN-13: 978-0199203864

世界各地拥有馆藏的图书馆（OCLC）:191

5 Plantwide Dynamic Simulators in Chemical Processing and Control (Chemical Industries) by William L. Luyben (Hardcover - June 15, 2002)

ISBN-13: 978-0824708016

世界各地拥有馆藏的图书馆（OCLC）:96

6 The Mesoscopic Theory of Polymer Dynamics (Springer Series in Chemical Physics) by Vladimir N. Pokrovskii (Hardcover - Dec. 29, 2009)

ISBN-13: 978-9048122301

世界各地拥有馆藏的图书馆（OCLC）:24

7 Chemical Oscillations, Waves, and Turbulence by Yoshiki Kuramoto (Paperback - Aug. 5, 2003)

ISBN-13: 978-0486428819

世界各地拥有馆藏的图书馆（OCLC）:27

8 An Introduction to Fluid Dynamics by G.K. Batchelor and G.K. Batchelor (Paperback - Feb. 15, 2000)

ISBN-13: 978-0521663960

9 Chemical Engineering Dynamics, Includes CD-ROM: An Introduction to Modelling and Computer Simulation by John Ingham, Irving J. Dunn, Elmar Heinzle, and Jiri E. Prenosil (Hardcover - Aug. 24, 2007)

ISBN-13: 978-3527316786

世界各地拥有馆藏的图书馆（OCLC）:85

10 Advances in Chemical Physics, Geometric Structures of Phase Space in Multi-Dimensional Chaos : Applications to Chemical Reaction Dynamics in Complex Systems ACP Vol. 130 2V SET by Stuart A. Rice, Mikito Toda, Tamiki Komatsuzaki, and Tetsuro Konishi (Hardcover - Feb. 11, 2005)

ISBN-13: 978-0471711582

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