课程名（Coursename）

Chemistry 240. Statistical Thermodynamics

课程代码（Coursenumber）

5215

课程对象（Audience）

Primarily for Graduates

开课教师（Teacher）

Eugene I. Shakhnovich

学期（Semester）

Spring term

课程描述（Description））

An introduction to statistical mechanics, thermodynamics, and chemical kinetics with applications to problems in chemistry and biology. Topics include: thermodynamics and statistical properties of gases, liquids and crystals, critical phoenomena, elements of non-equilibrium statistical mechanics with applications to Chemistry and Biophysics such as theories for biopolymers and chemical reactions. The course has two tracks. Chem 161 is the basic track. Chem 240 is the advanced track. Each will have separate sections and homework.

课时信息（Totalhours）

Tu., Th., 11:30–1. EXAM GROUP: 13, 14

教参信息（Textbookinfo）

1 Statistical Thermodynamics by Erwin Schrodinger (Paperback - Sept. 1, 1989)

ISBN-13: 978-0486661018

2 An Introduction to Statistical Thermodynamics by Terrell L. Hill (Paperback - Jan. 1, 1987)

ISBN-13: 978-0486652429

3 Elements of Statistical Thermodynamics: Second Edition by Leonard Kollender Nash (Paperback - Jan. 19, 2006)

ISBN-13: 978-0486449784

世界各地拥有馆藏的图书馆（OCLC）:28

4 Molecular Driving Forces: Statistical Thermodynamics in Chemistry & Biology by Ken A. Dill and Sarina Bromberg (Paperback - Sept. 13, 2002)

ISBN-13: 978-0815320517

世界各地拥有馆藏的图书馆（OCLC）:387

5 Statistical Thermodynamics: Fundamentals and Applications by Normand M. Laurendeau (Hardcover - Nov. 21, 2005)

ISBN-13: 978-0521846356

世界各地拥有馆藏的图书馆（OCLC）:172

6 Statistical Mechanics by Donald A. McQuarrie (Hardcover - May 2000)

ISBN-13: 978-1891389153

7 Thermodynamics, Statistical Thermodynamics, & Kinetics (2nd Edition) by Thomas Engel and Philip Reid (Hardcover - Mar. 22, 2009)

ISBN-13: 978-0321615039

世界各地拥有馆藏的图书馆（OCLC）:66

8 An Introduction to Thermodynamics and Statistical Mechanics by Keith S. Stowe (Hardcover - June 11, 2007)

ISBN-13: 978-0521865579

世界各地拥有馆藏的图书馆（OCLC）:170

9 Equilibrium and Non-Equilibrium Statistical Thermodynamics by Michel Le Bellac, Fabrice Mortessagne, and G. George Batrouni (Hardcover - May 3, 2004)

ISBN-13: 978-0521821438

世界各地拥有馆藏的图书馆（OCLC）:223

10 Thermodynamics and Statistical Mechanics (Classical Theoretical Physics) by Walter Greiner, Ludwig Neise, Horst Stöcker, and D. Rischke (Paperback - May 9, 1995)

ISBN-13: 978-0387942995

11 Introduction to Modern Statistical Mechanics by David Chandler (Paperback - Sept. 17, 1987)

ISBN-13: 978-0195042771