课程代码（Coursenumber）  
CHM 503  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
学期（Semester）  
  
课程描述（Description））  
Understanding equilibrium and nonequilibrium properties of matter in terms of the microscopic details of molecular interactions and structure. Topics include Gibbs ensembles, microscopic basis of the laws of classical thermodynamics, noninteracting systems, virial expansion, distribution function theory, Monte Carlo and molecular dynamics simulation techniques, critical phenomena, percolation theory, renormalization group methods, and Boltzmann equation and applications.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Introduction to Statistical Mechanics by S. K. Sinha (Hardcover - Oct. 30, 2005)  
ISBN-13: 978-1842653029  
世界各地拥有馆藏的图书馆（OCLC）:80  
2 Glassy Materials and Disordered Solids: An Introduction to Their Statistical Mechanics, (Revised Edition) by Kurt Binder and Walter Kob (Paperback - Apr. 30, 2010)  
ISBN-13: 978-9814273442  
世界各地拥有馆藏的图书馆（OCLC）:2  
3 Statistical Mechanics: A Concise Introduction for Chemists by B. Widom (Paperback - May 3, 2002)  
ISBN-13: 978-0521009669  
世界各地拥有馆藏的图书馆（OCLC）:267  
4 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  
5 Introduction To Statistical Mechanics by James Rice (Paperback - Mar. 15, 2007)  
ISBN-13: 978-1406719208  
6 An Introduction to Thermodynamics and Statistical Mechanics by A. K. Saxena (Hardcover - May 30, 2010)  
ISBN-13: 978-1842655283  
世界各地拥有馆藏的图书馆（OCLC）:29  
7 Elements of Statistical Mechanics: With an Introduction to Quantum Field Theory and Numerical Simulation by Ivo Sachs, Siddhartha Sen, and James Sexton (Paperback - Apr. 15, 2010)  
ISBN-13: 978-0521143646  
世界各地拥有馆藏的图书馆（OCLC）:3  
8 Introduction to Quantum Statistical Mechanics by N. N. Bogolubov, N. N., and Jr. Bogolubov (Paperback - Dec. 11, 2009)  
ISBN-13: 978-9814295826  
世界各地拥有馆藏的图书馆（OCLC）:69  
9 Statistical Mechanics: An Introduction by Evelyn Guha (Hardcover - Oct. 24, 2007)  
ISBN-13: 978-1842653357  
世界各地拥有馆藏的图书馆（OCLC）:61  
10 Introduction to Nonextensive Statistical Mechanics: Approaching a Complex World by Constantino Tsallis (Hardcover - Mar. 11, 2009)  
ISBN-13: 978-0387853581  
世界各地拥有馆藏的图书馆（OCLC）:55