课程名（Coursename）  
Statistical Mechanics  
  
课程代码（Coursenumber）  
 5.72  
  
课程对象（Audience）  
Graduate  
  
选课前提（prerequisite）  
5.70, 5.73, 18.075  
  
单元（units）  
2-0-4  
  
添加至时间表 （add to schedule）  
Lecture: MWF9 (BEGINS MARCH 29) (2-139)  
  
开课教师（Teacher）  
J. Cao  
  
学期（Semester）  
spring term  
  
课程描述（Description）  
Principles and methods of statistical mechanics. Classical and quantum statistics, grand ensembles, fluctuations, molecular distribution functions, and other topics in equilibrium statistical mechanics. Topics in thermodynamics and statistical mechanics of irreversible processes.  
  
备注（notes）  
H-level Grad Credit  
  
教参信息（Textbookinfo）  
1 Statistical Mechanics by Donald A. McQuarrie (Hardcover - May 2000)  
Publisher: University Science Books; 2 edition (May 2000)   
ISBN-13: 978-1891389153   
2 Statistical Mechanics, Second Edition by R. K. Pathria (Paperback - Aug. 6, 1996)  
Publisher: Butterworth-Heinemann; 2 edition (August 6, 1996)   
ISBN-13: 978-0750624695   
3 Statistical Mechanics: Entropy, Order Parameters and Complexity (Oxford Master Series in Physics) by James P. Sethna (Paperback - June 1, 2006)  
Publisher: Oxford University Press, USA; illustrated edition edition (June 1, 2006)   
ISBN-13: 978-0198566779   
世界各地拥有馆藏的图书馆（OCLC）:300  
4 Introduction to Modern Statistical Mechanics by David Chandler (Paperback - Sept. 17, 1987)  
Publisher: Oxford University Press, USA; 1 edition (September 17, 1987)   
ISBN-13: 978-0195042771   
5 Elementary Statistical Physics by Charles Kittel (Paperback - Mar. 8, 2004)  
Publisher: Dover Publications; Dover Ed edition (March 8, 2004)   
ISBN-13: 978-0486435145   
世界各地拥有馆藏的图书馆（OCLC）:28  
6 The Principles of Statistical Mechanics by Richard Chace Tolman (Paperback - July 15, 2010)  
Publisher: Dover Publications (July 15, 2010)   
ISBN-13: 978-0486638966   
世界各地拥有馆藏的图书馆（OCLC）:240  
7 Statistical Mechanics, 2nd Edition by Kerson Huang (Paperback - May 13, 1987)  
Publisher: Wiley; 2 edition (May 13, 1987)   
ISBN-13: 978-0471815181   
8 Statistical Mechanics (North-Holland Personal Library) by R. Kubo, H. Ichimura, T. Usui, and N. Hashitsume (Paperback - May 3, 1990)  
Publisher: North Holland; 12th repr. 1992 edition (May 3, 1990)   
ISBN-13: 978-0444871039   
9 Statistical Mechanics: Theory and Molecular Simulation (Oxford Graduate Texts) by Mark E. Tuckerman (Hardcover - Apr. 19, 2010)  
Publisher: Oxford University Press, USA (April 19, 2010)   
ISBN-13: 978-0198525264   
世界各地拥有馆藏的图书馆（OCLC）:64  
10 Exactly Solved Models in Statistical Mechanics by Rodney J. Baxter (Paperback - Jan. 11, 2008)  
 Publisher: Dover Publications (January 11, 2008)   
ISBN-13: 978-0486462714   
世界各地拥有馆藏的图书馆（OCLC）:34