课程代码（Coursenumber）  
CHM 506  
  
课程对象（Audience）  
Primarily for Graduates  
  
开课教师（Teacher）  
  
学期（Semester）  
  
课程描述（Description））  
Theories of the chemical bond and intermolecular interactions and quantum mechanical methods and their use in predicting and interpreting chemical phenomena are studied. Illustrative examples are drawn from organic, inorganic, physical, and biological chemistry.  
  
课时信息（Totalhours）  
  
教参信息（Textbookinfo）  
1 Group Theory and Chemistry by David M. Bishop (Paperback - Jan. 14, 1993)  
ISBN-13: 978-0486673554  
2 Chemical Structure and Bonding by Roger L. Dekock and Harry B. Gray (Paperback - Oct. 1, 1989)  
ISBN-13: 978-0935702613  
3 Chemical Bonding at Surfaces and Interfaces by Anders Nilsson, Lars G.M. Pettersson, and Jens Norskov (Hardcover - Oct. 31, 2007)  
ISBN-13: 978-0444528377  
3 Chemical Bonding Models, Volume 1, Molecular Structure and Energetics by Joel F. Liebman, Arthur Greenberg, and Edited by: J. F. Liebman (Hardcover - Sept. 17, 1986)  
ISBN-13: 978-0471186694  
4 Theoretical Models of Chemical Bonding, Part 1: Atomic Hypothesis and the Concept of Molecular Structure by Z. B. Maksic (Hardcover - Aug. 1990)  
ISBN-13: 978-0387515786  
5 Optical Spectra and Chemical Bonding in Transition Metal Complexes: Special Volume II, dedicated to Professor Jørgensen (Structure and Bonding 107) by Thomas Schonherr (Hardcover - Dec. 3, 2004)  
ISBN-13: 978-3540008545  
世界各地拥有馆藏的图书馆（OCLC）:116  
6 Solids and Surfaces: A Chemist's View of Bonding in Extended Structures by Roald Hoffmann (Hardcover - Jan. 13, 1989)  
ISBN-13: 978-0471187103  
7 The Bell That Rings Light: A Primer in Quantum Mechanics And Chemical Bonding (Mathematics Across the Curriculum) by Dorothy Wallace and Joseph J. Belbruno (Paperback - Sept. 7, 2006)  
ISBN-13: 978-9812567062  
世界各地拥有馆藏的图书馆（OCLC）:242  
8 Quantum Chemistry: A Unified Approach by David B. Cook (Hardcover - Sept. 26, 2008)  
ISBN-13: 978-1848162655  
世界各地拥有馆藏的图书馆（OCLC）:137  
9 Theoretical Treatments of Hydrogen Bonding (Wiley Research Series in Theoretical Chemistry) by Duan Hadi (Hardcover - Jan. 5, 1998)  
ISBN-13: 978-0471973959  
10 Hydrogen Bond Research (Chemical Monthly, Volume 130, Number 8, 1999) by Peter Schuster and Werner Mikenda (Hardcover - Dec. 15, 1999)  
ISBN-13: 978-3211833964