课程名（Coursename）

Crystal Structure Analysis

课程代码（Coursenumber）

5.069

课程对象（Audience）

Graduate H-level Grad Credit

选课前提（prerequisite）

5.03, 5.04

单元（units）

2-0-4

添加至时间表 （add to schedule）

Lecture: TR8.30-10 (ENDS MARCH 18) (56-114)

开课教师（Teacher）

P. Mueller

学期（Semester）

spring term

课程描述（Description）

Introduction to X-ray crystallography: symmetry in real and reciprocal space, space and Laue groups, geometry of diffraction, structure factors, phase problem, direct and Patterson methods, electron density maps, structure refinement, crystal growth, powder methods, limits of diffraction methods, structure data bases.

课时信息（Totalhours）

教参信息（Textbookinfo）

1 Crystal Structure Analysis: A Primer by Jenny P. Glusker and Kenneth N. Trueblood (Paperback - Aug. 29, 1985)

Publisher: Oxford University Press, USA; 2 edition (August 29, 1985)

ISBN-13: 978-0195035438

2 Crystal Structure Analysis for Chemists and Biologists (Methods in Stereochemical Analysis) by Jenny P. Glusker, Mitchell Lewis, and Miriam Rossi (Hardcover - Aug. 1994)

Publisher: Wiley-VCH (August 1994)

ISBN-13: 978-0471185437

3 Crystal Structure Analysis: Principles and Practice (International Union of Crystallography Texts on Crystallography) by Alexander J Blake, Jacqueline M Cole, John S O Evans, and Peter Main (Paperback - Aug. 31, 2009)

Publisher: Oxford University Press, USA; 2 edition (August 31, 2009)

ISBN-13: 978-0199219476

世界各地拥有馆藏的图书馆（OCLC）:104

4 Direct Methods of Solving Crystal Structures (NATO Science Series B: Physics) by Henk Schenk (Hardcover - Feb. 29, 1992)

Publisher: Springer; 1 edition (February 29, 1992)

ISBN-13: 978-030

5 Structure and Properties of Liquid Crystals (Topics in Applied Physics) by Lev M. Blinov (Hardcover - Nov. 1, 2010)

Publisher: Springer; 1 edition (November 1, 2010)

ISBN-13: 978-9048188284

世界各地拥有馆藏的图书馆（OCLC）:2

6 Crystal Structure Determination by Werner Massa and Robert O. Gould (Hardcover - Mar. 31, 2004)

Publisher: Springer; 2nd completely updated ed. edition (March 31, 2004)

ISBN-13: 978-3540206446

世界各地拥有馆藏的图书馆（OCLC）:291

7 Methods of Structural Analysis of Modulated Structures and Quasicrystals, Lekeitio, Spain April 29-May 4 1991 by J. M. Perez-Mato, F. J. Zuniga, and G. Madariago (Hardcover - Jan. 1992)

Publisher: World Scientific Pub Co Inc (January 1992)

ISBN-13: 978-9810206925

8 Anomalous X-Ray Scattering for Materials Characterization (Springer Tracts in Modern Physics) by Yoshio Waseda (Hardcover - Oct. 3, 2002)

Publisher: Springer; 1 edition (October 3, 2002)

ISBN-13: 978-3540434436

世界各地拥有馆藏的图书馆（OCLC）:167

9 Proteomics and Nanocrystallography by Eugenia Pechkova and C. Nicolini (Hardcover - Sept. 30, 2003)

Publisher: Springer; 1 edition (September 30, 2003)

ISBN-13: 978-0306479021

世界各地拥有馆藏的图书馆（OCLC）:155

10 The Jahn-Teller Effect: Fundamentals and Implications for Physics and Chemistry (Springer Series in Chemical Physics) by Horst Köppel, David R. Yarkony, and Heinz Barentzen (Hardcover - Feb. 18, 2010)

Publisher: Springer; 1st Edition. edition (February 18, 2010)

ISBN-13: 978-3642034312

世界各地拥有馆藏的图书馆（OCLC）:18