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PHYSICS 363 - SOLID-STATE PHYSICS Michael Stavola Fairchild Lab 211 Telephone: 83946 E-mail: Mjsa@Lehigh.edu TEXT: Elementary Solid-State Physics, M. Ali Omar  
The Course Will Focus On Material 3th, 2024

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Instructor: Thushari Jayasekera Office: Neckers 478 Tel: (618)-453-1055 Email  
Thushari@siu.edu Office Hours: F 1.30-3.30 Pm Text Book: Solid State Physics –  
ASHCROFT/MERMIN Other References: Intro 1th, 2024

**Physics 5555- Solid State Physics, Part I Syllabus - Fall 2003**

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Massimiliano Di Ventra Office: Robeson Hall 209-A Phone: (540) 231-8729 E-mail:  
Diventra@vt.edu Office Hours: By Appointment Recommended Texts: No Single 2th,  
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**Physics 3716 Advanced Solid State Physics Winter/Spring ...**

For Topics In “advanced Solid State Physics” Beyond Ashcroft And Mermin, I May

Refer To Advanced Solid State Physics By Philip Phillips, Which Is Also Available On-line Through PittCat Classic. For Semiconductor Physics, A Good (albeit Somewhat Advanced) Book Is Fundamentals O 4th, 2024

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1. Book Chapter Pages 3-36 Crystal Structures 2. Book Chapter Pages 37-78 Lattice Vibrations 3. Book Chapter Pages 79-107 Free Electron Theory Of Metals 4. Book Chapter Pages 109-127 Elements Of Band Theory 5. Book Chapter Pages 129-160 Use Of Elementary Group Theory In Calculating Band 4th, 2024

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Physics 5556- Solid State Physics, Part II Syllabus – Spring 2002 Instructor: Massimiliano Di Ventra Office: Robeson Hall 209-A Phone: (540) 231-8729 E-mail: Diventra@vt.edu Office Hours: By Appointment Recommended Texts: No Single 2th, 2024

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Condensed Matter Theorists. 11. A Quantum Approach To Condensed Matter Physics

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Is The Textbook For The Course. 2. Introduction To Solid State Physics, Charles Kittel (2005, 8th Edition) A Classic Textbook. It Has Been Updated, Most Recently In 2005. Some 3th, 2024

### **Syllabus For Physics 211A { Solid State Physics I**

1. N. W. Ashcroft And N. D. Mermin, Solid State Physics, Brooks Cole; 1 Edition (January 2, 1976). 2. Concept Of Concepts In Solids: Lectures On The Theory Of Solids World Scien-ti C Pub Co Inc (January 1998). 3. C. Kittel, Introduction To Solid State Physics, Wiley; 8 Edition (November 11, 1th, 2024

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Page 2 Of 5 A) NaCl B) CsCl C) Zn D) RbCl A12 Crystallographic Axes Are Obtained By The Intersection Of \_\_\_\_\_ Non 4th, 2024

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Course Texts: Understanding Solid State Physics By Sharon Holgate (required) And Introduction To Solid State Physics By Charles Kittel (highly Recommended, Virtual Copies Exist). Kittel's Book Will Be More Critical For The Second Half Of The

Semester, But Still Useful Early On Too. 3th, 2024

**Physics 1374, Fall 2017 Introduction Of Solid State Physics**

Textbook: Oxford Solid State Basics By Steven H. Simon Will Be The Primary Textbook Upon Which Material Up To The Midterm Exam Will Be Based. Introduction To Solid State Physics (Eighth Edition) By Charles Kittel Is An Additional Recommended Textbook. Material Beyond The Midterm Is Partially Covered In This Text. 2th, 2024

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