

# SSS3 PHYSICS LESSON NOTES - FIRST TERM

## Scheme of Work

SN	WEEK	TOPICS
1	WEEK 1	Revision/Introduction to Lasers
2	WEEK 2	Fibre Optics
3	WEEK 3	Semiconductor(Electronics) Electrical conduction through solid materials
4	WEEK 4	Electric Field: Shunt and Multiplier Principle of Potentiometer, Electric Field Intensity, Electric Potential and Coulomb's Law.
5	WEEK 5	Electrolysis: Electrical conduction through Liquid, and Gases. Electrolytes and Non-Electrolytes, Faraday's Laws of electrolysis and application.
6	WEEK 6	Electromagnetic Wave and Capacitance
7	WEEK 7	Mid Term Test/Open Day/ Mid Term Break
8	WEEK 8	Gravitational Field
9	WEEK 9	Rocket and Satellite Components
10	WEEK 10	Energy and Society
	WEEK 11	Magnet and Magnetic Field
11	WEEK 12	Revision
12	WEEK 13	Examination

# Content Of Ss3 Physics Text

**Kathleen Armour**



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a unified structure and aims at discussing not only classic chapters of the subject matter but also in more or less detail problems that are of great interest for today's researcher as well. Besides the book presents a much larger material than what can be covered in a two or three semester course. In the first part of the first volume the analysis of crystal symmetries and structure goes into details that certainly cannot be included in a usual course on solid state physics. The same applies among others to the discussion of the methods used in the determination of band structure, the properties of Fermi liquids and non-Fermi liquids and the theory of unconventional superconductors in the present and third volumes. These parts can be assigned as supplementary reading for interested students or can be discussed in advanced courses.

**Chapters 1-20** Laird Kramer, 2008      **PSSC physics 3e 71** U. Haber Schaim, 1961      *Physics of Solids* J. B. Ketterson,      **Fundamentals of**

**the Physics of Solids. Volume I, Structure and Dynamics** J. Sólyom, 2007      **Fundamentals of the Physics of Solids**

Jenő Sólyom, 2009-09-02 This book is the first of a three volume series written by the same author. It aims to deliver a comprehensive and self-contained account of the fundamentals of the physics of solids. In the presentation of the properties and experimentally observed phenomena together with the basic concepts and theoretical methods it goes far beyond most classic texts. The essential features of various experimental techniques are also explained. The text provides material for upper level undergraduate and graduate courses. It will also be a valuable reference for researchers in the field of condensed matter physics.

**Cxc** Alec Farley, 2006-09-17      **Project Physics**, 1975      [Physics for CSEC®](#) Louise Petheram, David Henry, Devinesh Neerajan, 2014-11-13 Newly revised in line with the latest syllabus and with a modernised student friendly design which provides additional practice for students and brings lab work to life with exciting activities and simulations.

**Problems In General Physics** I.E. Irodov, 2008-12-01

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