

SECOND TERM E- LEARNING NOTE

SUBJECT: PHYSICS

CLASS: SS 1

SCHEME OF WORK

WEEK	TOPIC
1.	Work, Energy and Power
2.	Heat Energy, Concept of Heat and Uses
3.	Thermometer and Its Type, Evaporation and Boiling
4.	Expansion of Solid, Effect and Applications of Expansion
5.	Expansivity and Its Application – Linear, Area and Volume. Anomalous Expansion of Water. Real and Apparent Expansivity
6.	Heat Transfer – Conduction, Convection, Radiation and Their Applications
7.	Density and Relative density
8.	Upthrust, Archimedes Principle,
9.	Viscosity,
10.	Revision and examination

REFERENCE BOOK

- New School Physics By M.W Anyakoha
- Senior Secondary School Physics By P.N Okeke

WEEK 1

TOPIC: WORK, ENERGY AND POWER

CONTENT

- Work
- Work Done in Lifting a Body & Falling Bodies
- Conservation & Transformation of Energy
- World Energy Resources

WORK

Work is said to be done whenever a force moves a body through a certain



Topics In Physics For Ss1

**Finnish Summer School in Theoretical
Physics (4th : 1968 : Liperi,
Finland), Dan Olof Riska**

Topics In Physics For Ss1:

Nonlinear Topics in Ocean Physics A.R. Osborne,1991-07-04 The main fields presented at this school were mesoscale and large scale flows and nonlinear wave dynamics The resulting proceedings present the latest developments in these fields

Symposium on Recent Topics in Semiconductor Physics Yutaka Toyozawa,1983 **Topics in Theoretical Physics** Finnish Summer School in Theoretical Physics (4th : 1968 : Liperi, Finland),Dan Olof Riska,1969 **FCT Education**

Secretariat Journal of Curriculum Studies and Instruction ,2008-07 **Educart CUET UG 2024 Science ISC Board**

Supplementary Book of Physics + Chemistry + Biology (Additional Topics + Past Year Papers + Mock Papers on

new syllabus) Educart,2024-06-17 Books Structure NTA CUET official 2023 papers solved Past year papers to understand the exam pattern Educart CUET UG 2024 Science ISC Board Supplementary Book of Physics Chemistry Biology Additional

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choose this book First ever book for ISC students for CUET supplementary topics Ludwig Faddeev Memorial Volume: A

Life In Mathematical Physics Mo-lin Ge,Antti Niemi,Kok Khoo Phua,Leon A Takhtajan,2018-05-21 Ludwig Faddeev is widely

recognized as one of the titans of 20th century mathematical physics His fundamental contributions to scattering theory

quantum gauge theories and the theory of classical and quantum completely integrable systems played a key role in shaping

modern mathematical physics Ludwig Faddeev s major achievements include the solution of the three body problem in

quantum mechanics the mathematical formulation of quantum gauge theories and corresponding Feynman rules Hamiltonian

and algebraic methods in mathematical physics with applications to gauge theories with anomalies quantum systems with

constraints and solitons the discovery of the algebraic structure of classical and quantum integrable systems and quantum

groups and solitons with the topology of knots Faddeev s name is imprinted in many areas of mathematics and theoretical

physics including Faddeev s equations and Faddeev s Green function in scattering theory Faddeev Popov ghosts and Faddeev

Popov determinant in gauge theories Gardner Faddeev Zakharov bracket for the KdV equation Faddeev Zamolodchikov

algebra in quantum integrable systems Faddeev Reshetikhin Takhtajan construction in the theory of quantum groups knotted solitons in the Skyrme Faddeev model and many others Ludwig Faddeev founded the St Petersburg school of modern mathematical physics and distinguished himself by serving the mathematics community for over three decades including his leadership of the International Mathematical Union in the period of 1986-1990 He was conferred numerous prizes and memberships of prestigious institutions in recognition of the importance of his work These include the Dannie Heineman Prize for Mathematical Physics the Dirac Medal the Max Planck Medal the Shaw Prize and the Lomonosov Gold Medal among others A gathering of contributions from some of the biggest names in mathematics and physics this volume serves as a tribute to this legendary figure Volume contributors include Fields medalist Sir Michael Atiyah Jürg Fröhlich Roman Jackiw Vladimir Korepin Nikita Nekrasov Andrzej Neveu Alexander M Polyakov Samson Shatashvili Fedor Smirnov as well as Nobel laureates Frank Wilczek and C N Yang

UCSF General Catalog University of California, San Francisco, 1992 *Catalog* Community College of Denver, 2009 *Soviet Physics*, 1990 *Catalog* Pikes Peak Community College, 2018

Orchestration of Learning Environments in the Digital World Dirk Ifenthaler, Pedro Isaías, Demetrios G. Sampson, 2022-01-31 This volume focuses on the implications of digital technologies for educators and educational decision makers that are not widely represented in the literature The chapters contained in the volume are based on the presentations at the 2020 edition of the CELDA conference and cover multiple developments in the field such as deploying learning technologies proposing pedagogical approaches and practices to address digital transformation and presenting case studies of specific technologies and contexts The chapters form a lively debate and provide a comprehensive analysis of the contribution of learning technologies designed to improve the learning process and the experience of the students as well as to develop key competences

XXV Physics in Collision Vladislav Simák, Rupert Leitner, Alice Valkárová, 2006-02-16 The annual Physics in Collision International Conference reviewed and updated key topics in all areas of elementary particle physics ranging from neutrino physics to recent results obtained from colliders The book will appeal to researchers and graduate students interested in particle physics and astroparticle physics *Physical Review*, 2000-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics

Physics Briefs, 1993 **Nuclear Science Abstracts**, 1974 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and

industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

Solar Energy Update ,1985 Acoustical Society of America ,1976 Meetings on Atomic Energy ,1979

Scattering Theory of Classical and Quantum N-Particle Systems Jan Dereziński, Christian Gérard, 2013-03-09 This monograph addresses researchers and students It is a modern presentation of time dependent methods for studying problems of scattering theory in the classical and quantum mechanics of N particle systems Particular attention is paid to long range potentials For a large class of interactions the existence of the asymptotic velocity and the asymptotic completeness of the wave operators is shown The book is self contained and explains in detail concepts that deepen the understanding As a special feature of the book the beautiful analogy between classical and quantum scattering theory e g for N body Hamiltonians is presented with deep insight into the physical and mathematical problems

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