

NPTL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTL Video Course - Physics - Classical Field Theory

Subject Co-ordinator - Prof. Suresh Govindarajan

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - What is Classical Field Theory?
- Lecture 2 - Symmetries and Invariances - I
- Lecture 3 - Symmetries and Invariances - II
- Lecture 4 - Group Theory in Physics - I
- Lecture 5 - Group Theory in Physics - II
- Lecture 6 - Finite Groups - I
- Lecture 7 - Finite Groups - II
- Lecture 8 - Basics of CFT - I
- Lecture 9 - Basics of CFT - II
- Lecture 10 - Basics of CFT - III
- Lecture 11 - Green Functions - I
- Lecture 12 - Green Functions - II
- Lecture 13 - Noether's Theorem - I
- Lecture 14 - Noether's Theorem - II
- Lecture 15 - Kink Soliton
- Lecture 16 - Hidden Symmetry
- Lecture 17 - Local Symmetries
- Lecture 18 - The Abelian Higgs model
- Lecture 19 - Lie Algebras - I
- Lecture 20 - Lie Algebras - II
- Lecture 21 - Magnetic Vortices - I
- Lecture 22 - Magnetic Vortices - II
- Lecture 23 - Non-abelian gauge theories - I
- Lecture 24 - Non-abelian gauge theories - II
- Lecture 25 - Irreps of Lie algebras - I
- Lecture 26 - Irreps of Lie algebras - II
- Lecture 27 - The Standard Model - I
- Lecture 28 - The Standard Model - II
- Lecture 29 - Irreps of the Lorentz/Poincare algebras

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTL and Educational Video Courses in LAN

www.digimat.in

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

- Lecture 30 - The Dirac monopole
- Lecture 31 - The 't Hooft-Polyakov monopole
- Lecture 32 - Revisiting Derrick's Theorem
- Lecture 33 - The Julia-Zee dyon
- Lecture 34 - Instantons - I
- Lecture 35 - Instantons - II
- Lecture 36 - Instantons - III
- Lecture 37 - Instantons - IV
- Lecture 38 - Dualities
- Lecture 39 - Geometrization of Field Theory