

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

NPTEL Video Course - Mathematics - NOC:Variational Calculus and its applications in Control Theory and Nanome

Subject Co-ordinator - Prof. Sarthok Sircar

Co-ordinating Institute - IIIT - Delhi

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

Lecture 1 - Introduction / Euler Lagrange Equations - Part 1
Lecture 2 - Introduction / Euler Lagrange Equations - Part 2
Lecture 3 - Introduction / Euler Lagrange Equations - Part 3
Lecture 4 - Introduction / Euler Lagrange Equations - Part 4
Lecture 5 - Introduction / Euler Lagrange Equations - Part 5
Lecture 6 - Introduction / Euler Lagrange Equations - Part 6
Lecture 7 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 1
Lecture 8 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 2
Lecture 9 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 3
Lecture 10 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 4
Lecture 11 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 5
Lecture 12 - Special cases / Invariance, Existence and Uniqueness of solutions - Part 6
Lecture 13 - Generalization / Numerical solution of Euler Lagrange Equations - Part 1
Lecture 14 - Generalization / Numerical solution of Euler Lagrange Equations - Part 2
Lecture 15 - Generalization / Numerical solution of Euler Lagrange Equations - Part 3
Lecture 16 - Generalization / Numerical solution of Euler Lagrange Equations - Part 4
Lecture 17 - Generalization / Numerical solution of Euler Lagrange Equations - Part 5
Lecture 18 - Generalization / Numerical solution of Euler Lagrange Equations - Part 6
Lecture 19 - Isoperimetric Problems - Part 1
Lecture 20 - Isoperimetric Problems - Part 2
Lecture 21 - Isoperimetric Problems - Part 3
Lecture 22 - Isoperimetric Problems - Part 4
Lecture 23 - Isoperimetric Problems - Part 5
Lecture 24 - Isoperimetric Problems - Part 6
Lecture 25 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 1
Lecture 26 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 2
Lecture 27 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 3
Lecture 28 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 4
Lecture 29 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 5

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- Lecture 30 - Problems with Holonomic and non- Holonomic Constraints, Variable Endpts - Part 6
- Lecture 31 - Broken extremals / Hamiltonian Formulation - Part 1
- Lecture 32 - Broken extremals / Hamiltonian Formulation - Part 2
- Lecture 33 - Broken extremals / Hamiltonian Formulation - Part 3
- Lecture 34 - Broken extremals / Hamiltonian Formulation - Part 4
- Lecture 35 - Broken extremals / Hamiltonian Formulation - Part 5
- Lecture 36 - Broken extremals / Hamiltonian Formulation - Part 6
- Lecture 37 - Hamilton-Jacobi Equations - Part 1
- Lecture 38 - Hamilton-Jacobi Equations - Part 2
- Lecture 39 - Hamilton-Jacobi Equations - Part 3
- Lecture 40 - Hamilton-Jacobi Equations - Part 4
- Lecture 41 - Hamilton-Jacobi Equations - Part 5
- Lecture 42 - Hamilton-Jacobi Equations - Part 6
- Lecture 43 - Noether's Theorem / Introduction to Second Variation - Part 1
- Lecture 44 - Noether's Theorem / Introduction to Second Variation - Part 2
- Lecture 45 - Noether's Theorem / Introduction to Second Variation - Part 3
- Lecture 46 - Noether's Theorem / Introduction to Second Variation - Part 4
- Lecture 47 - Noether's Theorem / Introduction to Second Variation - Part 5
- Lecture 48 - Noether's Theorem / Introduction to Second Variation - Part 6
- Lecture 49 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 1
- Lecture 50 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 2
- Lecture 51 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 3
- Lecture 52 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 4
- Lecture 53 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 5
- Lecture 54 - Conjugate points / Jacobi Accessory Equations / Introduction to Optimal Control Theory - Part 6
- Lecture 55 - Constrained Optimization in Optimal Control Theory - Part 1
- Lecture 56 - Constrained Optimization in Optimal Control Theory - Part 2
- Lecture 57 - Constrained Optimization in Optimal Control Theory - Part 3
- Lecture 58 - Constrained Optimization in Optimal Control Theory - Part 4
- Lecture 59 - Constrained Optimization in Optimal Control Theory - Part 5
- Lecture 60 - Constrained Optimization in Optimal Control Theory - Part 6
- Lecture 61 - Introduction to Nanomechanics - Part 1
- Lecture 62 - Introduction to Nanomechanics - Part 2
- Lecture 63 - Introduction to Nanomechanics - Part 3
- Lecture 64 - Introduction to Nanomechanics - Part 4
- Lecture 65 - Introduction to Nanomechanics - Part 5
- Lecture 66 - Introduction to Nanomechanics - Part 6