

Target ORDINARY DIFFERENTIAL EQUATIONS CSIR NET 2023

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Task

Introduction

Homogeneous & Linear Differential Equations

Formation & Solution of Differential Equations

Initial Value Problem & Autonomous Differential Equation

General, Particular & Singular Solution of Differential Equation

Variable Separable Method of Solving Differential Equation Part 1

Variable Separable Method of Solving Differential Equation Part 2

Reducible to Variable Separable Method of Solving ODE

Homogeneous Differential Equation

Reducible to Homogeneous Differential Equation Type 1

Reducible to Homogeneous Differential Equation Type 2

Reducible to Homogeneous Differential Equation Type 3

First Order Linear Differential Equation

Reducible to First Order Linear Differential Equation

Exact Differential Equation

Exact Differential Equation - Part 2

Solution of Exact Differential Equation (Part 1)

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Solution of Exact Differential Equation (Part 1)

Reducible to Exact Differential Equation Part 1

Reducible to Exact Differential Equation Part 2

Reducible to Exact Differential Equation Part 3

Orthogonal Trajectory

Linear Differential Equation of Order 'n'

Linear Differential Eq of Order 'n' With Constant Coefficients

Particular Integral of Linear Differential Eq of Order 'n'

Particular Integral of Linear Differential Eq of Order 'n' part 2

Particular Integral of Linear Differential Eq of Order 'n' part 3

Particular Integral of Linear Differential Eq of Order 'n' part 4

Particular Integral of Linear Differential Eq of Order 'n' part 5

Particular Integral of Linear Differential Eq of Order 'n' part 6

Wronskian

Wronskian & Concept of Linear Dependence & Independence

Method of Variation of Parameters

Lagrange's Method of Undetermined Coefficients: Part 1

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Lagrange's Method of Undetermined Coefficients: Part 2

Eigen Values, Characteristic Polynomial, Minimal Polynomial

Cauchy Euler Equation: Linear D.E. with Variable Coefficients

Cauchy Euler Equation: CF & Particular Integral

Legendre Differential Equation

Reduction of Order of Differential Equation

Change of Independent Variable of Differential Equation

Wronskian & Abel's Theorem

Existence & Uniqueness Theorem

Sturm Liouville Boundary Value Problem

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