

Differential Equations With Applications And Historical Notes

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determine the integrating factor

plug it in back to the original equation

move the constant to the front of the integral

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video I ...

Intro

Accept that sometimes you're not gonna get it

It's okay not to understand

What to do

Outro

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The Physics of Complex Numbers

Complex Numbers in Quantum Mechanics

The New Paper

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to Know These 5 Methods for Differential Equations by Physics with Elliot 922,169 views 1 year ago 30

minutes - Almost every physics problem eventually comes down to solving a **differential equation**..

But **differential equations**, are really hard!

Introduction

The equation

1: Ansatz

2: Energy conservation

3: Series expansion

4: Laplace transform

5: Hamiltonian Flow

Matrix Exponential

Wrap Up

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a **differential equation**, is and how to solve them.

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Ordinary **Differential Equations**, solving techniques: 1- Separable **Equations**, 2- ...

2- Homogeneous Method

3- Integrating Factor

4- Exact Differential Equations

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Intro

The question

Example

Pursuit curves

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What are differential equations

Solution to a differential equation

Examples of solutions

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focus on solving differential equations by means of separating variables

integrate both sides of the function

take the cube root of both sides

find a particular solution

place both sides of the function on the exponents of e

find the value of the constant c

start by multiplying both sides by dx

take the tangent of both sides of the equation

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How To Solve Second Order Linear Differential Equations

Quadratic Formula

The General Solution to the Differential Equation

The General Solution

General Solution of the Differential Equation

The Quadratic Formula

General Solution for Case Number Three

Write the General Solution of the Differential Equation

Boundary Value Problem

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