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## Case Solved

### Debriefing

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INTRO: In this video we solve a combination series and parallel resistive circuit problem for the voltage across, current through and power dissipated by the circuit's resistors.

BREAK IT DOWN: We redraw the circuit in linear form to more easily identify series and parallel relationships. Then we combine resistors using equivalent resistance equations. After redrawing several times we end up with a single resistor representing the equivalent resistance of the circuit. We then apply Ohm's Law to this simple (or rather simplified) circuit and determine the circuit current (I-0 in the video).

BUILD IT UP: Retracing our redraws, we determine the voltage across and current through each resistor in the circuit using Ohm's Law.

POWER: After tabulating our solutions we determine the power dissipated by each resistor.

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### Introduction

### Traveling Voltage

### Tablet Resistance

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### Kerkhof Current Law

### The General Solution

### General Solution to a Simple Rc Circuit

### Time Constant

### General Equation of an Rc Circuit

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### Thermodynamics

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critical fluids, freezing point depressions and osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

### Basic Engineering Thermodynamics

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Introduction

Quantitative Data Analysis 101

What exactly is quantitative data analysis

What is quantitative data analysis used for

The two branches of quantitative data analysis

Descriptive Statistics 101

Mean (average)

Median

Mode

Standard deviation

Skewness

Example of descriptives

Inferential Statistics 101

T-tests

ANOVA

Correlation analysis

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Example of inferential statistics

How to choose the right quantitative analysis methods

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Intro

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Introduction to the Simple Linear Regression

Simple Linear Regression Model

Population Regression Function

Interpretation of these Coefficients

The Conditional Mean Independence Assumption

Visual Representation

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Intro

Unbox

User Interface

Comparisons

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Overview

Linear Regression Model

Logit Model

Model coefficients

Marginal effects

Logit marginal effects

Partial effects for discrete variables

Odds ratio

Predicted probability

Our square

Discussion

Linear Regression in 2 minutes - Linear Regression in 2 minutes by Visually Explained 162,845 views 2 years ago 2 minutes, 34 seconds - Linear Regression in 2 minutes. ----- Credit: Manim and Python : <https://github.com/3b1b/manim> Blender3D: ...

Linear Regression and Correlation - Example - Linear Regression and Correlation - Example by slcmath@pc 1,005,778 views 10 years ago 24 minutes - Course Web Page: <https://sites.google.com/view/slcmathpc/home>.

Example of Linear Regression and Correlation

Coefficient of Correlation

Find the Equation of Our Line of Least Squares

Standard Deviation

Interpolation

ECO375F - 1.0 - Derivation of the OLS Estimator - ECO375F - 1.0 - Derivation of the OLS Estimator by Econometrics and Analytics 104,607 views 8 years ago 32 minutes - This is the 1st tutorial for ECO375F. We cover the derivation of the Ordinary Least Squares Estimator. 1) Review: Linear model 2) ...

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Intro

Sample Space

Cumulative Probability Distribution of a Discrete Random Variable

The Bernoulli Random Variable

Cumulative Probability Distribution of a Continuous Random Variable

Probability Density Function

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Introduction

Why we need econometrics

How to study

Problems

Simultaneous Equation

Different steps in econometric analysis Part - 1 - Different steps in econometric analysis Part - 1 by NPTEL-NOC IITM 63,698 views 3 years ago 30 minutes - Similarly, in **econometric analysis**, also we will observe certain behavior, particularly some social behavior, and then we will collect ...

Econometrics // Lecture 1: Introduction - Econometrics // Lecture 1: Introduction by KeynesAcademy 756,192 views 10 years ago 13 minutes, 15 seconds - This is an introduction to **econometrics**, tutorial. This video is a basic overview and touches on each of these subjects: 1. What is ...

1.1. The basics of econometric analysis - 1.1. The basics of econometric analysis by Lazarski Open Courses 8,054 views 2 years ago 13 minutes, 41 seconds - Hello so the first video of this course is devoted to the basics of **econometric analysis**, and general philosophy of this type of ...

1.1.1. Sampling Distribution of OLS estimator W.Greene Econometric Analysis Example 4.1 - 1.1.1. Sampling Distribution of OLS estimator W.Greene Econometric Analysis Example 4.1 by Zahid Asghar 338 views 3 years ago 8 minutes, 3 seconds - Teaching online is real fun. Teaching **Econometrics**, without heavy duty math has become more important than before due to ...

Wooldridge Econometrics for Economics BSc students Ch. 2: The Simple Regression Model - Wooldridge Econometrics for Economics BSc students Ch. 2: The Simple Regression Model by youtube-economist 33,392 views 2 years ago 1 hour, 26 minutes - This video provides an introduction into the topic based on Chapter 2 of the book "Introductory **Econometrics**," by Jeffrey ...

Where are we in the course?

A simple regression problem?

Definition of the simple regression model

Deriving the ordinary least squares estimates

Properties of OLS on any sample of data

Units of measurement and functional form

Expected values and variances of the OLS estimators

Different steps in econometric analysis Part - 2 - Different steps in econometric analysis Part - 2 by NPTEL-NOC IITM 36,255 views 3 years ago 23 minutes - So, let me explain the broader objective of **econometric analysis**, which is drawing inferences about the population. Let us say that ... What is Econometrics? | Econometrics 101: Lesson 1 | Think Econ - What is Econometrics? | Econometrics 101: Lesson 1 | Think Econ by Think Econ 33,984 views 1 year ago 11 minutes, 8 seconds - This video is the first lesson in our brand new series: **Econometrics**, 101. In this video we answer the question: "What is ...

Introduction

What is Econometrics

Collecting and Analyzing Data

Types of Data

Roadmap

Introduction to econometrics and econometric analysis Part - 1 - Introduction to econometrics and econometric analysis Part - 1 by NPTEL-NOC IITM 66,592 views 3 years ago 20 minutes - 01

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