

Nptel Electrical Machine Design

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Explore the fundamental principles and design considerations for electrical machines with this NPTEL course on Electrical Machine Design. This comprehensive course covers various aspects of machine design, from theoretical concepts to practical applications, providing students with the knowledge and skills necessary to design efficient and reliable electrical machines. Learn about magnetic circuits, winding configurations, cooling methods, and performance analysis, essential for engineers in the electrical power and machinery industries.

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The Genius of Cycloidal Propellers: Future of Flight? - The Genius of Cycloidal Propellers: Future of Flight? by Ziroth 236,952 views 2 days ago 11 minutes, 36 seconds - Propellers are fundamental to transport all around the world and combine so many interesting engineering principles. This is why I ...

Why This 17-Year Old's Electric Motor Is Important - Why This 17-Year Old's Electric Motor Is Important by Undecided with Matt Ferrell 2,186,986 views 1 year ago 14 minutes, 20 seconds - CORRECTIONS: 09:40: Text should read 750 RPM. I've trimmed a couple of short sections from the video that were creating ...

How does an Electric Motor work? (DC Motor) - How does an Electric Motor work? (DC Motor) by Jared Owen 16,689,427 views 3 years ago 10 minutes, 3 seconds - This video has been dubbed into a few different languages. You can change the audio track language in the Settings menu.

Intro

Circuits

Magnets

Electromagnets

Improvements to Electric Motor

Commutator and Brushes

Improving Torque

Devices with Motors

Brilliant

Day in My Life as a Quantum Computing Engineer! - Day in My Life as a Quantum Computing Engineer! by Anastasia Marchenkova 370,599 views 1 year ago 46 seconds – play Short - Every

day is different so this is just ONE day! This was a no meeting day so I ended up being able to do a lot of heads down work.

final year diploma engineering project #viral #mechanical - final year diploma engineering project #viral #mechanical by Sakib Shaikh 18,199,664 views 1 year ago 43 seconds – play Short - final year diploma engineering project #viral #mechanical, #trending #finaltest #youtubeshorts #shorts #shortvideo #practice.

Understanding electric motor Windings! - Understanding electric motor Windings! by Lesics 3,066,377 views 2 years ago 7 minutes, 51 seconds - It's a pleasure to watch fabrication process of windings in the factories. What you see here is a fully automatic winding process.

3 PHASE WINDINGS

FOUR POLE RMF

24 SLOT WINDING

How to Design and Simulate Electrical Systems in MATLAB - How to Design and Simulate Electrical Systems in MATLAB by MATLAB 45,139 views 1 year ago 4 minutes, 28 seconds - Learn how to **design**, and simulate **electrical**, circuits in MATLAB®. Follow an example of **designing**, a simple resistor, inductor, and ...

How Do Electric Vehicles Work?| Working Principles of EV in 3 Hrs | Certified EV Crash Course - How Do Electric Vehicles Work?| Working Principles of EV in 3 Hrs | Certified EV Crash Course by Skill Lync 1,252,392 views 1 year ago 2 hours, 59 minutes - What's this course about? This is a crash course on the workings of **Electric**, Vehicles, created for automobile enthusiasts and ...

1. Evolution of EV
2. Working of an Electric Vehicle
3. Difference between EVs & IC Engine cars
4. Types of Electric Vehicles
5. Improving Efficiency in Electric Vehicles
6. Understanding Electric Vehicle Motors
7. Motor Controllers in EVs
8. Types of EV Batteries
9. Lithium-ion Batteries in EVs
10. Lead Acid & Ni-MH Batteries in EVs
11. Single Speed Transmission System in EVs
12. The EV Skateboard Chassis
13. Wiring Harness in EVs
14. EV Thermal Management System
15. Regenerative Braking System in EVs
16. Working of Drive by Wire Technology
17. Battery Management System in EVs
18. SoC & SoH of EV Batteries
19. Charging an EV
20. Reluctance Motors in EVs
21. Smart Charging an EV
22. Safety in EVs
23. Electromagnetic Effects in EVs
24. Environmental Impacts of EVs
25. Internal Permanent Magnet Synchronous Reluctance Motor
26. Electric Vehicle Range Extenders
27. Autonomous Features in EVs
28. Future of EVs
29. Suspension System in Vehicles
30. Types of Suspension Systems
31. Working of the Steering System

How they Make Electric MOTOR in Factory With Amazing Skills - How they Make Electric MOTOR in Factory With Amazing Skills by Erstaunliche Technologie und Fähigkeiten 11,066,796 views 1 year ago 1 minute – play Short - #shortsvideo #amazing #skills #manufacturing #amazingtechnology #skilledworker #casting #metal #process #production ...

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