

# Design of Machine Elements I - Video course

## **Module-1**

### **Lecture-1**

#### **Design philosophy**

Design-A decision-making process

Machine design

Design of machine elements

Design principle

### **Lecture-2**

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Stochastic design principles

### **Lecture-3**

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#### **Engineering Materials**

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## **Module-2**

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### **Lecture-10**

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Fatigue failure

Strain and stress life

Endurance limit

Fatigue strength

### **Lecture-11**

#### **Fatigue strength and design**

Modified Goodman diagram

Gerber Line

Soderberg line

### **Lecture-12**

#### **Design for combined fatigue loading**



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## Mechanical Engineering

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# Nptel Electrical Machine Design

**Hidaia Alassouli Mahmood**



## **Nptel Electrical Machine Design:**

**Contemporary Developments in Agricultural Cyber-Physical Systems** Karthick, G.S.,2023-08-01 The cultivation of crops plays a very important role in agriculture However proper maintenance and management are required Lack of such management would lead to crop loss or reduced crop yields Hence the ability to detect and identify diseases on infected crops is a problem of increasing concern Real time disease detection systems do not exist in the current agricultural landscape It requires tremendous amounts of work expertise in plant diseases and excessive processing time Using precision agriculture techniques combined with AI a great deal of work is reduced Contemporary Developments in Agricultural Cyber Physical Systems provides a forum for researchers and practitioners to exchange ideas and achieve progress in cyber physical systems by highlighting agricultural applications advances and research challenges The book features chapters on all aspects pertaining to this multidisciplinary paradigm in particular in its application to sustainable agriculture developments Covering topics such as automation monitoring systems and smart agriculture this premier reference source is an excellent resource for scientists healthcare professionals data analysts computer scientists students and educators of higher education researchers and academicians

**Dynamics of Machines and Mechanisms, Industrial Research** K.R. Balasubramanian,S.P. Sivapirakasam,R. Anand,2014-07-15 Selected peer reviewed papers from the 2014 International Mechanical Engineering Congress IMEC 2014 June 13 15 2014 Tamil Nadu India *A Brief History of Mechanical Engineering* Uday Shanker Dixit,Manjuri Hazarika,J. Paulo Davim,2016-08-13 What is mechanical engineering What a mechanical engineering does How did the mechanical engineering change through ages What is the future of mechanical engineering This book answers these questions in a lucid manner It also provides a brief chronological history of landmark events and answers questions such as When was steam engine invented Where was first CNC machine developed When did the era of additive manufacturing start When did the marriage of mechanical and electronics give birth to discipline of mechatronics This book informs and create interest on mechanical engineering in the general public and particular in students It also helps to sensitize the engineering fraternity about the historical aspects of engineering At the same time it provides a common sense knowledge of mechanical engineering in a handy manner

**Blockchain Technology** E. Golden Julie,J. Jesu Vedha Nayahi,Noor Zaman Jhanjhi,2020-11-09 This book presents a detailed exploration of adaption and implementation as well as a 360 degree view spectrum of blockchain technologies in real world business applications Blockchain is gaining momentum in all sectors This book offers a collection of protocol standards issues security improvements applicability features and types of cryptocurrency in processing and through 5G technology The book covers the evolution of blockchain from fundamental theories to present forms It offers diversified business applications with usable case studies and provides successful implementations in cloud edge computing smart city and IoT The book emphasizes the advances and cutting edge technologies along with the different tools and platforms The primary audience for this book

includes industry experts researchers graduates and under graduates practitioners and business managers who are engaged in blockchain and IoT related technologies

**Engineering Optimization 2014** Hélder Rodrigues, José Herskovits, Christóvão Mota Soares, José Miranda Guedes, Aurelio Araujo, João Folgado, Filipa Moleiro, José Aguilar Madeira, 2014-09-26 Optimization methodologies are fundamental instruments to tackle the complexity of today's engineering processes Engineering Optimization 2014 is dedicated to optimization methods in engineering and contains the papers presented at the 4th International Conference on Engineering Optimization ENGOPT2014 Lisbon Portugal 8 11 September 2014 The book will be of interest to engineers applied mathematicians and computer scientists working on research development and practical applications of optimization methods in engineering

Novel AI Applications for Advancing Earth Sciences Yadav, Sudesh, Yadav, Satya Prakash, Raj, Pethuru, Tiwari, Prabhakar, Albuquerque, Victor Hugo C. de, 2023-12-29 The Earth Sciences industry faces a new challenge the need for accurate efficient and reliable methods to monitor and predict geological phenomena and environmental changes As climate change earthquakes and other natural disasters become more frequent and severe the necessity for advanced tools and techniques is paramount Traditional methods often fall short in providing the precision and speed required to address these critical issues Geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence AI to revolutionize their field will find the solution within the pages of Novel AI Applications for Advancing Earth Sciences This book offers the research community concepts expanding upon the fusion of AI technology with earth sciences By leveraging advanced AI tools such as convolutional neural networks support vector machines artificial neural networks and the potential of remote sensing satellites this book transforms the identification of geological features geological mapping soil classification and gas detection Scientists can now predict earthquakes and assess the probability of climate change with unprecedented accuracy Additionally the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations leading to an unprecedented leap in accuracy and efficiency

**Shaping the Future of Automation With Cloud-Enhanced Robotics** Gatti, Rathishchandra Ramachandra, Singh, Chandra, 2024-04-26 In a world where automation is quickly becoming a standard a significant challenge arises the need for robots to overcome their inherent limitations in processing power and storage This bottleneck restricts their potential for innovation and collaboration hindering the realization of true autonomous capabilities The burgeoning field of Cloud Robotics promises a revolutionary solution by seamlessly integrating robots with cloud based technologies This integration empowers robots to offload computation tasks tap into vast data resources and engage in real time collaboration with their mechanical counterparts Existing literature often falls short of providing a holistic understanding of the complex interplay between robotics and cloud computing Researchers academics and industry professionals find themselves grappling with fragmented insights hindering their ability to harness the full potential of cloud enhanced robotics The lack of a centralized resource leaves a void impeding

progress and innovation in this groundbreaking field Without a roadmap to navigate the challenges and opportunities presented by cloud robotics stakeholders risk being left behind in an era where interdisciplinary collaboration is paramount Enter **Shaping the Future of Automation With Cloud Enhanced Robotics** a beacon of knowledge designed specifically for academics researchers and industry professionals seeking to unlock the transformative power of cloud robotics From fundamental principles to advanced applications each chapter meticulously unravels the intricacies of cloud infrastructure communication protocols data management human robot interaction and more By addressing challenges and proposing solutions this book not only disseminates recent advancements but also equips readers with actionable insights Real world examples and case studies illuminate the practical applications and benefits of cloud enhanced robotics making it an indispensable guide for professionals aiming to implement these innovations in their operations

**Technologies for Sustainable Healthcare Development** Murugan, Thangavel,W., Jaisingh,P., Varalakshmi,2024-07-26 In contemporary healthcare Industry 5 0 technologies present a paradoxical challenge and opportunity The rapid integration of Cyber Physical Systems Cloud Computing Internet of Things Artificial Intelligence Smart Factories and Cognitive Computing has ushered in unprecedented transformations yet it has concurrently given rise to critical vulnerabilities within healthcare systems As sensitive patient data becomes increasingly digitized the specter of cybersecurity threats looms larger than ever The book titled **Technologies for Sustainable Healthcare Development** undertakes the crucial task of addressing this pressing concern Focused on Cybersecurity and Data Science Innovations in Industry 5 0 **Technologies for Sustainable Healthcare** it serves as an indispensable guide for professionals researchers and policymakers aiming to fortify healthcare systems against unauthorized access and cyber threats while unlocking the potential of transformative technologies The overarching objective of **Technologies for Sustainable Healthcare Development** is to dissect the challenges posed by the convergence of cybersecurity data science and Industry 5 0 in healthcare This timely publication delves into the evolution of cybersecurity and data science providing insights into their symbiotic relationship and the implications for healthcare Through its exploration of cutting edge research innovative solutions and practical applications the book becomes a beacon for those seeking to navigate the evolving landscape of secure healthcare development It does not merely dissect problems but endeavors to provide sustainable development strategies contributing to the advancement of robust and efficient healthcare systems

**Harnessing AI and Digital Twin Technologies in Businesses** Ponnusamy, Sivaram,Assaf, Mansour,Antari, Jilali,Singh, Satyanand,Kalyanaraman, Swaminathan,2024-07-26 The intersection of artificial intelligence AI and digital twin technology presents a problem and an unparalleled opportunity for transformation Businesses grapple with the need for operational excellence innovation and a competitive edge all while navigating the intricate web of data analytics decision making and real time monitoring In response to these challenges **Harnessing AI and Digital Twin Technologies in Businesses** emerges as an example of insight and guidance offering a comprehensive exploration of the complementary connection

between AI and digital twin technology In a world where the convergence of these powerful tools transforms business intelligence enabling initiative taking decision making and dynamic simulations This book serves as a solution for decision makers technologists and researchers seeking to not only understand but harness the potential of AI powered digital twins to enhance productivity creativity and judgment in their operations

**Electrical Machines** Dr. Hidaia Mahmood Alassouli,2020-04-01 This book includes my lecture notes for electrical machines course The book is divided to different learning parts

Part 1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines

Part 2 Explain the principles underlying the performance of three phase electrical machines

Part 3 Analyse operate and test three phase induction machines

Part 4 Investigate the performance design operation and testing of the three phase synchronous machine

Part1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines Describe the construction of simple magnetic circuits both with and without an air gap Explain the basic laws which govern the electrical machine operation such as Faraday s Law Ampere Biot Savart s Law and Lenz s Law Apply Faraday s Law of electromagnetic induction Ampere Biot Savart s Law and Lenz s Law to solve for induced voltage and currents in relation to simple magnetic circuits with movable parts Illustrate the principle of the electromechanical energy conversion in magnetic circuits with movable parts

Part 2 Explain the principles underlying the performance of three phase electrical machines Compare and contrast concentric and distributed windings in three phase electrical machines Identify the advantages of distributed windings applied to three phase machines Explain how the pulsating and rotating magnetic fields are produced in distributed windings Calculate the synchronous speed of a machine based on its number of poles and frequency of the supply Describe the process of torque production in multi phase machines

Part 3 Analyse operate and test three phase induction machines Calculate the slip of an induction machine given the operating and synchronous speeds Calculate and compare between different torques of a three phase induction machine such as the locked rotor or starting torque pull up torque breakdown torque full load torque or braking torque Develop and manipulate the equivalent circuit model for the three phase induction machine Analyse and test experimentally the torque speed and current speed characteristics of induction machines and discuss the effects of varying such motor parameters as rotor resistance supply voltage and supply frequency on motor torque speed characteristics Perform no load and blocked rotor tests in order to determine the equivalent circuit parameters of an induction machine Explore various techniques to start an induction motor Identify the applications of the three phase induction machines in industry and utility Classify the insulations implemented in electrical machines windings and identify the factors affecting them

Part4 Investigate the performance design operation and testing of the three phase synchronous machine Describe the construction of three phase synchronous machines particularly the rotor stator windings and the rotor saliency Develop and manipulate an equivalent circuit model for the three phase synchronous machine Sketch the phasor diagram of a non salient poles synchronous machine operating at various modes

operation such as no load operation motor operation and generator operation Investigate the influence of the rotor saliency on machine performance Perform open and short circuit tests in order to determine the equivalent circuit parameters of a synchronous machine Identify the applications of the three phase synchronous machines in industry and utility List and explain the conditions of parallel operation of a group of synchronous generators Evaluate the performance of the synchronous condenser and describe the power flow control between a synchronous condenser and the utility in both modes over and under excited Explain the principles of controlling the output voltage and frequency of a synchronous generator

*Design of Rotating Electrical Machines* Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova, 2013-12-31 In one complete volume this essential reference presents an in depth overview of the theoretical principles and techniques of electrical machine design This timely new edition offers up to date theory and guidelines for the design of electrical machines taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines New coverage includes Brand new material on the ecological impact of the motors covering the eco design principles of rotating electrical machines An expanded section on the design of permanent magnet synchronous machines now reporting on the design of tooth coil high torque permanent magnet machines and their properties Large updates and new material on synchronous reluctance machines air gap inductance losses in and resistivity of permanent magnets PM operating point of loaded PM circuit PM machine design and minimizing the losses in electrical machines End of chapter exercises and new direct design examples with methods and solutions to real design problems A supplementary website hosts two machine design examples created with MATHCAD rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations Also a MATLAB code for optimizing the design of an induction motor is provided Outlining a step by step sequence of machine design this book enables electrical machine designers to design rotating electrical machines With a thorough treatment of all existing and emerging technologies in the field it is a useful manual for professionals working in the diagnosis of electrical machines and drives A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students postgraduates researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion *Design of Electrical Machines* K. G.

Upadhyay, 2011-07 **Design of Electrical Machines (D.C. & A.C.)** V. N. Mittle, 1983 **Electrical Machine Design Data Book** A. Shanmugasundaram, 2015-11-02 A reference book for designing electrical machines **Design of Small Electrical Machines** Essam S. Hamdi, 1994-11-15 Designing electrical machines requires multi disciplinary skills Engineers must not only be expert in electromagnetic design but also in selecting materials and choosing production techniques Employing a range of examples the author covers various design procedures from specification to performance prediction Featuring Selection and specification of components and materials Production techniques Focus on both the electrical and mechanical construction aspects Introduction to CAD Detailed exploration of thermal design Unified approach to permanent

magnet and wound field d c motor design Design of 50 Hz and 400 Hz induction motors Typical designs This timely book highlights the latest advances in design techniques and materials By presenting a self contained and unified treatment it will prove invaluable to both professional engineers and senior students *Lecture Notes for Electrical Machines Course* Hidaia Alassouli Mahmood,2021-03-13 This book includes my lecture notes for electrical machines course The book is divided to different learning parts Part 1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines Part 2 Explain the principles underlying the performance of three phase electrical machines Part 3 Analyse operate and test three phase induction machines Part 4 Investigate the performance design operation and testing of the three phase synchronous machine Design and Testing of Electrical Machines DESHPANDE, M. V.,2009-12 The basic theory principle of operation and characteristics of transformers three phase induction motors single phase induction motors synchronous machines and dc machines are dealt with in Appendices to provide the background for the design of these machines **A**

**Course in Electrical Machine Design** Mandayam Sumani Tirunarayanan,1973 **Electrical Machines** Chandur Sadarangani,2006 Electrical Machines Hidaya Mahmoud Al-Assouly,2020-12-23

## Embracing the Song of Appearance: An Emotional Symphony within **Nptel Electrical Machine Design**

In some sort of consumed by screens and the ceaseless chatter of quick transmission, the melodic splendor and emotional symphony produced by the prepared term usually disappear into the back ground, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, situated within the pages of **Nptel Electrical Machine Design** an enchanting literary prize filled with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that captivating masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of the emotional evaluation, we shall examine the book is key harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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