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Stress analysis of an infinite plate with single hole by using Airy's stress function

Soni Kumari ^a, Pardeep ^b, Din Bandhu ^c

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Abstract

To design the machines and structures for optimum material utilization, analysis is required from stress point of view. Stress analysis is a fascinating subject which deals with finding the stress and strain. Also, the displacement distribution in solid component with external forces acting on it is also determined. Analysis of stresses in components

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FEEDBACK



Chapter

Safety Management with Application of Internet of Things, Artificial Intelligence, and Machine Learning for Industry 4.0 Environment

By *Sandeep Chhillar, Pankaj Sharma, Ranbir Singh*

Book [Handbook of Smart Manufacturing](#)

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ABSTRACT

Industry 4.0 (I4.0) is a collaboration of a group of technologies like IoT, machine learning, cloud computing and cyber physical system, artificial intelligence, cognitive computing, design integration, and sustainability under one roof for automation and information transfer in the industry. Today's complex functionality of industrial systems impacts health and safety of human beings working in different types of industrial environment. Safety and health should be given utmost importance in the initial stage of I4.0. Health and safety measures should be accessed on a priority basis. Over 100 industrial accidents in India and abroad were reported in the news in the last six months: Styrene vapor leakage at LG Polymers Visakhapatnam; ammonia gas leakage at a dairy unit in Bandapalli, Andhra Pradesh; a crane collapse at Hindustan Shipyard Ltd in Visakhapatnam; explosion and fire in an oil well at Oil India Ltd (OIL) in Tinsukia, Assam; a gas leak at Sainor Life Sciences Pvt Ltd., Visakhapatnam; a blast in a coal mine at Singareni Collieries Company Ltd in Peddapalli, Telangana; and several others were reported in India. A massive explosion of 27,000 tons of an ammonium nitrate warehouse took place at Lebanon's capital, Beirut. A huge loss of life and capital is observed in all [1] industrial accidents. Can we afford such explosions or accidents? The reply should be no. We need to upgrade the health and safety measures and norms with I4.0 technologies to avoid such situations. The focus of the present research article is to evaluate the major issues regarding health and safety integration with I4.0 revolution. The safety norms need to be revisited and the safety management system should be reframed in compliance with I4.0 standards as the standard will multiply and the impact is



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Advancement in Technology for Energy saving in Electronic Devices

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ABSTRACT

It will be extremely difficult to keep energy services at their current levels for the next 25 to 50 years. Global forces like rising economic activity in developing nations, geopolitical unrest in the major energy-producing nations, and environmental dangers brought on by rising emissions and global temperatures all put it in jeopardy. Global energy demand and associated CO₂ emissions are expected to rise by more than 50% over the next 25 years. Energy-efficient appliances can cut worldwide electricity consumption, even though an increase in the quantity and ownership of appliances is anticipated, according to the IPCC's Fifth Assessment Report. The International Energy Agency (IEA) anticipates a significant increase in both the number of newly installed appliances and traditional appliance energy efficiency (refrigerators, washing machines, televisions, etc). (Also called plug loads). Research on this topic is expanding in developed regions (North America and Europe) and even more in some developing regions (Asia Pacific), with a strong focus on China and India, according to the information processing study of publications about energy-efficient appliances conducted in this paper. According to the findings, policies are often adopted between three and thirty years before the majority of publications on the subject. Yet, the pattern appears to be shifting with articles pertaining to new appliances where the primary investigation takes place quickly.

Keywords: Energy Efficiency; appliance; climate change; policies; electronic devices; Electric Automation

DATA MINING AND DATA WAREHOUSING



***DATA
MINING***

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Mr. Saharsh Gera

Mr. Ananthanath GVS

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DATA MINING AND DATA WAREHOUSING

Designing a Fingerprint-Based Voting System with Arduino Uno and IoT Integration Ensuring Secure and Impartial Elections

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Abstract

Democratic societies uphold the principle of free elections, which serve as a means of electing representatives. It is essential to conduct these elections in a manner that is free, fair, and confidential. Traditionally, voting involved stamping a paper ballot and placing it in a ballot box to be manually counted. Despite the potential for errors, this process was utilized to determine the candidate with the most votes. This study proposes a novel system that not only minimizes electoral malpractices but also streamlines the voting process. The system is designed with an Arduino Uno microcontroller and utilizes fingerprint authentication. The Arduino Integrated Development Environment (IDE) is utilized to program the device, displaying the ballot card, and storing the results in the cloud. Only authorized voters can cast their ballots, and the system is equipped to detect any fraudulent activity. This project serves to uphold citizens' right to vote and ensures a fair and unbiased election.

Keywords: Internet of Things (IoT), Arduino, Fingerprint, Microcontroller, Voting system

I. INTRODUCTION



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Study of Types of Battery Technologies in Electric Vehicles

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Abstract

The developments in battery technology within the electric vehicle (EV) sector are the subject of this research study. As the need to reduce greenhouse gas emissions and mitigate the effects of climate change grows, electric vehicles are emerging as a viable option for environmentally friendly transportation. The creation of effective, high-performance batteries with sufficient power, endurance, and range is essential to the success of electric cars. This essay offers a thorough analysis of the development of battery technology for electric cars, including background information, the situation as it is today, new developments, and potential directions. Lithium-ion batteries, solid-state batteries, and lithium-sulfur batteries are just a few of the battery technologies that are thoroughly reviewed along with their advantages, disadvantages, and uses.

Key words: Battery, Technology, Advancements, Electric, Vehicles