



Chapter

A Study on Adoption of Information and Communication Tools in Emergency Disaster Management

By Sandeep Chhillar, Ranbir Singh, Pankaj Sharma

Book [Handbook of Intelligent and Sustainable Manufacturing](#)

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ABSTRACT

Any disaster influences health, educational, economic, structural, technological, social, and environment sectors. Local communities are in a prime position to play a pivotal role in the spotting of potential dangers, the formulation of contingency plans, the detection and management of emergencies, and the organization and execution of recovery activities. Leaders from communities and neighborhood health professionals can identify persons at risk, create confidence in the public, and disseminate information. Efficient disaster management is needed. With the evolution of industry 4.0 technologies, industrial safety measures, compliances, and regulations need to be revisited. Mobile technology has great potential to assist disaster managers in making decisions. New strategies for disaster management are needed. An integrated disaster management system can be a real-time solution. This chapter aims to conduct a literature study on available disaster management solutions, adopting information and communication tools into practice. Research and development efforts related to disaster management are heading towards more advanced management

The book "Current Status and Future Aspects in the Field of Public Health" describes the new plan for general well-being in India and incorporates epidemiological progress, demographical progress, natural changes, and social determinants of well-being. The job of the public authority in affecting populace well-being isn't restricted inside the well-being area but additionally by different areas outside the well-being frameworks. This book is a review of general well-being needs in India, its prosperity, constraints, and future extension. Wellbeing framework reinforcing, human asset advancement, and limit building and guideline in general wellbeing are significant regions inside the wellbeing area. Commitment to the well-being of a populace likewise comes from social determinants of well-being like day-to-day environments, nourishment, safe drinking water, sterilization, schooling, early youngster improvement, and government-backed retirement measures. Written by experts in the field, this book increases our understanding of the various developments that occurred in the different fields of Public Health.



Neelam Vashisth (Ed.)
Parijat Pandey (Ed.)

Current Status and Future Aspects in the Field of Public Health

The editors of this book Dr. Neelam Vashisth and Dr. Parijat Pandey have extensive experience in teaching, research, and publications. They have also received awards and achievements in their respective area of research.

FOR AUTHOR USE

Neelam Vashisth, Parijat Pandey (Eds.)



**A CRITICAL REVIEW ON MANAGEMENT OF WASTE MOBILE PHONES
AND IMPACT OF DISMANTLED MOBILE PHONE ON ENVIRONMENT AND
HUMAN HEALTH**

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5.1 Introduction

Technology evolution has transformed electronic market as one of the exponentially growing sectors worldwide (Funk, 2004). The increased demand and consumption of electronic

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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



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Solar Energy and Environmental Impact Assessments

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Abstract

As a way of mitigating the effects of climate change and decreasing reliance on fossil fuels, the transition to renewable energy sources, notably solar energy, has gained momentum on a worldwide scale. Several different solar energy systems are examined in this study, which offers a complete evaluation of the environmental implications and sustainability assessments connected with these technologies. Using a wide variety of academic literature, government papers, and industry publications, we conduct an analysis of the environmental consequences that solar photovoltaic (PV) systems and solar thermal technologies have over their entire life cycle. This analysis encompasses the phases of production, installation, operation, and decommissioning. Several important environmental factors, including greenhouse gas emissions, resource utilisation, land utilisation, water usage, and management of end-of-life situations, are investigated in great detail. In addition, we investigate the approaches that may be utilised to carry out life cycle assessments (LCAs) and energy payback time (EPBT) calculations in order to evaluate the effectiveness of solar energy systems in terms of sustainability.



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JIT Production and Supply Chain Management

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Abstract

The Just In Time (JIT) manufacturing system is examined in this study as a crucial instrument for boosting production process efficiency and improving supply chain performance. Furthermore, the function of Just-In-Time (JIT) and optimal implementation within the supply chain are examined. From then on, this approach is widely used, particularly in industrialised nations where it has been shown to yield production that is both prolific and of a high calibre. To ascertain additional aspects of this method's acceptability, more investigation is necessary. A comparison of Just-in-time (JIT) and non-JIT planning approaches in the areas of production/demand, resource discovery/shipping, and transportation/logistics has been conducted in order to examine the benefits of this system. The article's main topics include improving process flexibility, JIT production systems, and identifying key resources to enable JIT.

Keywords: Supply Chain, Just in Time (JIT), Production Planning