



Characterization of Thermal and Hydrodynamic Properties for Microencapsulated Phase Using the SPSS Method

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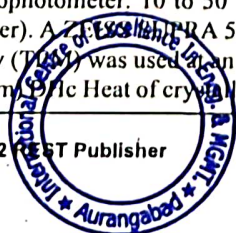
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Abstract: Thermal conductivity is the assets of a fabric that conducts warmth. Lower than materials with higher thermal conductivity Materials with thermal conductivity are low throughout Heat transfer occurs at cost. This characteristic the temperature is established and its reciprocal heat resistance The 3 primary thermal houses Foods have accurate heating, thermal conductivity and Heat dif-fusion. Specific heat is using 1°C The temperature of a kg substance The amount of heat required to raise Three simple warmth Treat-ments used in food safety include: Pasteurization, in which food is about sixty-two degrees Half an hour or seventy-two in Celsius 15 to 17 seconds at °C treatment is provided; Hot filling, including liquid Keeping foods and juices in containers are boiled earlier than; And Steam treatment under pressure carried out inside the processing approach, Thermal characterization of PCM Evaluation of melt-ing temperature by a differential scanning calorimeter (DSC) to det done, and the heat of fusion of the fabric (latent heat) is analyzed. Perkin Elmer Diamond DSC; The consequences are analyzed the use of Pyris 7.0 software. Thermal properties relate to a fabric's re-action when heat is carried out to a solid, a liquid, or a gasoline. This response may be an increase in temperature, a phase trade, a change in period or extent, the initiation of a chemical response, or a alternate in some other physical or chemical quantity. Research significance: To characterize the investigated fibers three methods are used suitable for evaluating the differences inside the systems of the fiber ad-ditives. FTIR spectroscopy evaluation revealed High in Mezilaurusitaba and puriti fibre Extraction contents at 2920 and 2850 cm⁻¹ May be associated with the best bands in, this Be careful when using pads and other pads means to be. Lignocellulosic Compare the crystallinity between fibers X-ray diffractometry results, Dipteryxodorata and guarava fiber are cellulose chains More in supplemental prepared formto see with FTIR spectroscopy Shows that are used. crystallinity, main to better crystallinity. The mixed consequences display that water related to lower amounts of extractives and better crystallinity and better crystallinity slows down the degradation process and increases the thermal stability of lignocelluloses fibres. Method: SPSS statistics is a multivariate analytics, business intelligence, and criminal investigation data management, advanced ana-lytics, developed by IBM for a statistical software package. A long time, spa inc. Was created by, IBM purchased it in 2009. The brand name for the most recent versions is IBM SPSS statistics. Evaluation parameters: Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie, Sisal and Buriti. Result: The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% relia-bility. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis. Conclusion: The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

Keywords: Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie and Sisal.

1. Introduction

Polymethylmethacrylate shell Microencapsulated N- Characterization of heptadecane and thermal properties. Emulsion polymerization approach by microencapsulated segment transfer fabric. (microPCMs) PMMA/heptadecane microcapsules as a novel solid-liquid were synthesized. Chemical and thermal characterization of microPCMs Scanning Electron Microscopy (SEM), Differential Scanning Calorimetry (DSC) and were investigated using thermogravimetry assay (TGA). Diameter of microPCMs is 2000 In thin varieties (0.14–0.40 lm) at rpm was found to exist. Circuit of MicroPCMs Surfaces are clean and compact. MicroPCMs have suitable electric garage capacity DSC results show that [1]. Fourier transform infrared spectroscopy (FTIR) of nanocapsules with KBr sampling method AvatAR-380 FTIR Using a spectrophotometer. 10 to 50 2 h x-ray diffractometer (Philips 1820 with a diffractometer and a 20 function sample converter). A 7.0 FTIR AvatAR 55-VP Scanning Electron Microscopy (SEM) and Geol 2010F Transmission Electron Microscopy (TEM) was used at an accelerating voltage of two hundred kV. Dynamic light scattering nomenclature d, DDiameter (m), ΔHc Heat of crystallization (kJ/kg) DHf Heat of Fusion (kJ/kg) Correct Thermal Conductivity (W/(m





IMPLEMENTATION OF NATIONAL EDUCATION POLICY 2020: OPPORTUNITIES AND CHALLENGES

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Abstract

Education as an integral part of the development of society and as a building block of holistic excellence within an individual to solve life problems must be advocated by a policy that would let education illuminate all the dark corners of our minds. An appropriate policy can facilitate education as a whole to build an individual and thereby build a society and ultimately build a nation. The introduction of the National Education Policy 2020 (NEP) can be regarded as the trigger to switch that light on. This paper is an attempt to recognize the inevitability of having a new education policy for our country to explore the opportunities and triumph over the challenges in the path of implementation of NEP 2020.

Keywords: National Education Policy 2020, Multidisciplinary System, Multilingualism, Gender Inclusion Fund, Early Child Care Education, Vocational Education, Technical Education.

Introduction

In the process of appraisal of educational system and real life cultural and industrial strength of India, the famous poet T. S. Eliot may be quoted- "Time past & time present are both perhaps contained in time future". This present study is objected to focus at the glorious past of India, misery thereof and the present ray of hope ignited by the National Education Policy 2020. To reach at a 'time future' where our pass outs match the global standard, we need objective assessment of our strengths and weakness to grab the opportunity and eliminate the challenges.

All over the world, emphasis is always been given to reform the educational system time to time as per the changing demands of the society to create more employment opportunities, to improve economy, to develop problem solving skills in an individual, to provide equal opportunity for all etc. After independence, to reform the educational system of India, a number of commissions and policies have come into effect till now-

1. University Education Commission (1948).
2. Secondary Education Commission (1952).
3. Indian Education Commission (1964-66) (The Kothari Commission).
4. National Policy on Education (1968).
5. National Policy on Education (1986).
6. National Policy on Education (1992).
7. National Education Policy 2020.

Education in Pre-independent India- A Historical Background:

The education policy in pre-independent India can be discussed into two time periods-

i. Before British Rule and ii. During the British Rule.

(i) Before British Rule

In India existence of advanced science & technology were vibrant for about 4000 years up to 1500 A.D. Its peak was spread around 500 A.D. to 700 A.D. when Aryabhat, Barahamihir, Bhramagupta led the world's Science arena.

As our country's genius was ignited long back as proved by the fact that our participation in World trade & Industry even in 1700 A.D. were about 23% and this could not be an 'Isolated Event'. These kinds of historical traces, recorded as a sense of pride about our heritage, needs to be inculcated in the young minds. Any false hood regarding enlightenment of Indians under British Rule would never be able to prove that they jumped into a barbaric land only to rule. Rather the truth was that India's wealth did attract them.

Knowledge on Medical Science can be traced back to Atharva veda. Later on, a separate name and form was given for knowledge in the nomenclature of Ayurveda. In fact, this name is indicative of an epistemological journey, which is more than Medical Science as Ayu means life span and Veda means knowledge base. So, connotation of Ayurveda is a science that deals with life span and obviously increasing it.

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Advisory Functions and advance HRMS

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Abstract

Two applications have been built as part of the employee management system, which is an application-based system. One application is for employers to maintain personnel details, while the other is for employees to record their attendance. Every Government or private organization uses information systems[2.] to store employee data. However, it has been discovered that many small-scale enterprises in India still utilize paper and pen to preserve records. However, there are numerous high-tech devices available that can perform this function, however, they are all expensive for reasons mediocre industries This essay addresses developing a method to handle their challenges at a lower cost. Each employee's attendance will be tracked by this system, and at the end of the month, their salaries will be determined. It calculates each employee's total working hours as well as overtime. Because every small business has its preferred holidays and week off policies, the employer is given complete discretion over how to handle each employee's holidays and workweek.

Keywords: attendance, employee management, payroll, salary calculation.

I. INTRODUCTION

Every organization maintains a record of its employees. Employee records are essential for managing employees. These records are necessary for any organization to manage the workforce, calculate pay, and assess employee performance [1]. The HR team's management of all these records is a difficult task and time-consuming procedure [3], which can be sped up by employing the EMS, or employee management system [5]. Any organization's success depends on its human resources, which are a crucial component. Organizations make significant investments in staff management. A human resource information system, or HRIS, is in charge of accounting and inventory control [6]. EMS is an informatics tool that helps owners, HRs, and managers save time, energy, and money. All businesses, whether public or private [5], require employee management systems. However, they have been keeping records using the antiquated, traditional approach of pen and paper for years. Recently, however, there has been a significant growth in the use of automatic systems[11] that can handle wage calculation on their own. Since these systems are expensive and need ongoing maintenance, they are challenging to adopt in many places. To resolve this issue, I have an EMS that is based on a mobile application. Each employee's wage and daily attendance will be computed. This technology was created so that smaller organizations may also use it. It helps small-scale industries manage their staff and is less expensive than other systems. This solution attempts to address this problem so that the HR staff can concentrate on other processes rather than resolving disputes because there are many disagreements in small industries owing to the erroneous calculation of pay and overtime. An organization benefits from streamlining the record-keeping procedure. ABSTRACT 226 International Journal for Modern Trends in Science and Technology. Organizations must apply this personnel management approach to increase the effectiveness of their work [4.]. This essay explores the development process, issues encountered, and advantages of utilizing the system. This system is made up of which one of two mobile apps that are best for the HR department to oversee staff and a separate one for each employee. They can check in using a QR code.

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Polymeric Materials for Bone and Cartilage Repair Using IBM SPSS Statistics Method

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Abstract. Polymeric materials for bone and cartilage repair Introduction: Polymers are called macromolecules made up of very large molecules natural or artificial one of the classes of objects, the simple chemicals called monomers are multiples of units. Polymers many substances in living things make, for example, proteins, cellulose, and nucleic acids. Natural and synthetic polymeric materials in bone tissue engineering are widely used because they are extracellular similarity to matrices and have considerable biocompatibility and biodegradability. Research significance: One of the most harmful and expensive issues in human health is dysfunction, injuries, or other types of damage to human tissue and organs. Different surgical procedures have been developed to solve these concerns, including total artificial substitutes, combined artificial kidneys, etc. Inert processed tissues heart valves, autogenic or allogeneic tissues, and total artificial kidney and prosthetic kidneys (transplantation). Organ transplantation will face significant challenges due to the scarcity of organ donors, the lifetime requirement for immunity, and its devastating consequences. Also, transplanted tissue does not provide all the functionality own tissue and can covers the donor site problem. Concerning the non-biological, there could be material issues. Like, disease, and shortage limited durability and biocompatibility. These factors have made stem cells, tissue engineering (te), and organogenesis promising and significant industries. Research doesn't offer anything. Just organs and tissues transplantation, however, can provide fresh viewpoints medications for illnesses Methodology: SPSS statistics is a data management, advanced analytics, multivariate analytics, business intelligence, and criminal investigation developed by IBM for a statistical software package. A long time, spa inc. Was created by, IBM purchased it in 2009. The brand name for the most recent versions is IBM SPSS statistics. Evaluation parameters: Natural Polymer, Proteins Collagen, Silk fibroin, Polysaccharides Chitosan, Alginates, Bacterial cellulose, Synthetic Polymers. Results: the Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .590 which indicates 59% reliability. From the literature review, the above 61% Cronbach's Alpha value model can be considered for analysis. Conclusion: Cronbach's alpha reliability results. The overall Cronbach's alpha value for the model was .590, indicating a reliability of 59%. From the literature review, the above Cronbach's alpha value of 61% can be considered to analyze the model.

Keywords: Natural Polymer, Synthetic Polymers, Bacterial cellulose

1. Introduction

Are from the recent ten years in the area of polymeric materials' antimicrobial activity, there have been notable reviews that took certain families, features, and/or applications into consideration. We tried it in this review collect all reported polymers with proven antibiotics activity with that in mind crowd and some of these examples may be omitted with a good sense [1]. Major polymer focus areas chemistry has no heat. Methods that aid in our understanding can be roughly categorized as material quality control and material property characterization. Preliminary inquiries about treatment, phase behavior and there is a degradation of polymers then the investigations continued using new polymeric materials or more advanced tools [2]. There is interest in nonlinear optics it has grown tremendously in recent times years, primarily because of telecom department high bandwidth optical is required switching and processing devices information service and data transfer requirements the computer age, and sophisticated amplification laser tools, it developed and necessary research new methods of sewing separate laser pulses to do specific functions or are immediately found in complex experiments [3]. Polymeric application materials allow more design freedom, and recycling accounts for about 82 percent of the weight of the average car. The current study's primary objective give a thorough evaluation. Applications of high-performance plastics in the field of vehicle safety and comfort. Such basic operations high-performance wide application plastics in vehicles dictating appearance vehicles, their operation, economy and low fuel consumption [4]. Correlation between cutting adhesion status by mechanisms between layers and controlled his frenzy. Since no attempt was made to deal with molecular factors, hierarchy control is full as a result of the polymer composite structure. The outcome is outstanding. The rigidity can be increased. 100 percent government property the two polymeric components are combined to create a multilayer composite [5]. Construction and characterization of fully synthetic polymeric self-healing which materials are drawn by biological systems? Damage activates the autophot. A therapeutic reaction. It is an exciting and expanding field of study that has the potential to greatly increase working life and safety. Polymeric parts for many different uses [6]. Increasing biodegradability biomedical applications of polymeric materials applications have significantly improved. The development of therapeutic devices, such