

Future of natural fibres - papers presented at a Shirley Institute Conference on 29-30 November 1977

Cotton Silk and Man-made Fibres Research Association - Fiber Conferences

The challenges of natural fiber in manufacturing, material selection and Technology application: a review

Taline Khan, Mohammad Thirun Bin Haniffah Sulaiman and Arvind Handa *Arvin*

Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia; *thirun@eng.upm.edu.my*

Brick Faculty of Engineering, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia; *arvindhanda@upm.edu.my*

ABSTRACT
In this review, previous studies about the properties and applications of natural fibers in engineering fields have been discussed. Natural fibers compare as a better alternative to synthetic fibers due to their natural properties such as renewability, availability, cost-effectiveness, biodegradability, and environmental friendliness. Since ancient times, natural fibers have been used in various applications such as clothing, insulation products, and composites. More recently, natural fibers can also be used, having a significant role in the development of engineering applications in various industries. Nowadays, researchers are competing natural fiber researches to find the best natural fiber for engineering applications. In this review, the properties of natural fibers and their applications in engineering fields, researchers are more focused on the properties of natural fibers and their applications in engineering fields. The main purpose of this review is to highlight the potential of using natural fiber composites.

KEYWORD
Natural fiber, natural fiber composite, mechanical properties, material properties, and applications.

Introduction
Over the last few decades, it has been found that natural fibers can be used and substituted for synthetic fibers (Nall and for 1999). This probably happened due to the biodegradability of the properties. The significance of natural fibers in the case of increasing the strength of the composites is well known. Natural fiber-reinforced polymer, natural fiber/polymer composites have many benefits that the total materials properties are increased. The mechanical properties of the natural fiber composites have been studied in the past (Pavlidou et al. 2013).

Natural fibers are considered as a potential raw fiber composites, they also come down-advantages, which have consequences in the application of aerospace and aerospace industry. These disadvantages are mainly due to the natural fibers' low temperature, low mechanical properties, and, most importantly, the price problem. The mechanical properties of natural fiber composites can be improved by performing chemical treatments, such as surface modification, the quality of the natural fibers can be improved for better matrix bonding (Taygaz et al. 2014). Also natural

Description: -

Fibers -- Congresses

Textile fibers -- Congresses
future of natural fibres - papers presented
at a Shirley Institute Conference on 29-30 November 1977

Zeitschrift für Unternehmensgeschichte -- 65

Shirley Institute publication -- S.28

Shirley Institute publication ; S28 future of natural fibres - papers presented at a Shirley Institute Conference on 29-30 November 1977

Notes: Includes bibliographical references
This edition was published in 1977



Filesize: 10.48 MB

Tags: #CV_ENG_17_SINGH

Prof. Virginia A. Teodosio, Ph.D.

A Survey on Image Denoising Abstract: ion from images plays a very vital role.

Prof. Hugh S. Torrens

The Field was used as a registration centre for those enlisting during the First World War and later became a social club called Leek National Reserve Club. The results show that the fly ash-based geopolymers artificial aggregate is lighter than natural aggregate in term of its specific gravity.

Natural fibres: An opportunity for job creation and improving livelihoods

This paper presents a framework of preliminary seismic vulnerability assessment of existing buildings in Kota Kinabalu.

Use of bitumen encapsulated cigarette butts in stone mastic asphalt

In order to minimize the environmental impact of water pollution, Best management practices BMPs and Low impact development LID approaches have been used to manage runoff as close as possible to its source.

Related Books

- [Lis-moi ça!](#)
- [Ordovician and Silurian Phi Kappa and Trail Creek Formations, Pioneer Mountains, central Idaho - str](#)
- [Philosophy of boredom](#)
- [Guidebook for North Carolina property mappers](#)
- [Resource collection for anti-racist training in the Leisure Services Department of Nottinghamshire C](#)