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RTSEM - 2022

National Conference On "Recent Trends In Science, Engineering & Management"

This is to certify that Mr. / Ms. / Dr.

Manish Kumar, Eshan College of Management, Mathura

has presented the paper titled

Impact of green accounting corporate culture: A study of developing country

*In the National Conference on "Recent Trends In Science, Engineering & Management"
RTSEM - 2022 held on June 9, 2022 at Eshan College Of Engineering, Farah, Mathura.*

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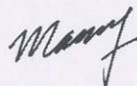
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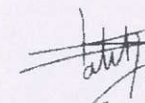
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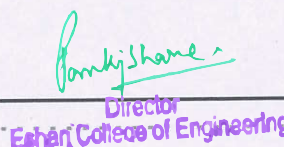
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has participated in the International Conference on “**Vision 2070: Achieving Sustainability through Management and Technology**” organized by Research & Development Cell of Asian School of Business, Noida on February 5, 2022. His/Her research paper titled Impact of Covid-19 On Green Consumerism: An Indian Perspective has been adjudged the Best Paper in Marketing Track



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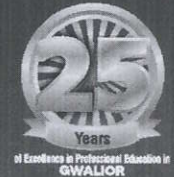
Reconsidering the role of social commerce in moulding
consumer buying behaviour during covid-19: a fuzzy
logic approach

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Director
Eshan College of Engineering



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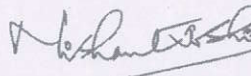
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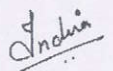
has Presented a Paper Titled

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descriptive study of e-commerce


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study of ncr region**



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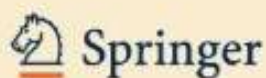
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Title: Simplified Approach for Model Identification of Non-Reheated Turbine of Load Frequency Control

Ashish Gupta¹, Afzal Sikander²

¹Department of Electrical and Electronics Engineering, Eshan College of Engineering Mathura, INDIA

²Department of Instrumentation and Control Engineering, NIT Jalandhar, INDIA

Paper ID: 26

In ESDA2021 during 30th -31st of December 2021 organized at Hotel The Maureen,
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Indian Institute of Engineering Science and Technology
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Review on the Development of Solid State Transformer

Bharat Bhushan Khare (Rajiv Gandhi Proudyogiki Vishwavidyalaya, India), Rajeev Shankar Pathak (Eshan College of Engineering, Agra, India), Sanjeev Sharma (New Horizon college of Engineering, India) and Vinod Kumar Singh (SR Group of Institutions, India)

Source Title: Emerging Materials and Advanced Designs for Wearable Antennas

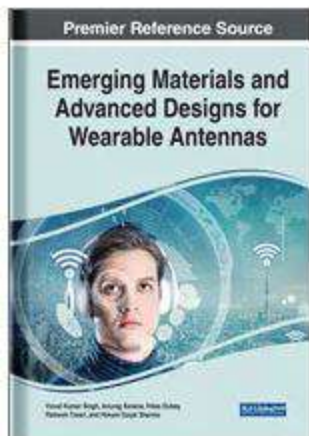
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Abstract

According to future renewable electric energy distribution and management (FREEDM) system, solid state transformers play an important role in smart grid technologies. They have several advantages over conventional transformers such as bi-directional power flow, light in weight, compact size, etc. They also compensate the environmental issues which are created due to transformer oil. Because of various advantages over traditional transformer, SST is preferred widely at the present time. So in this chapter, the various architectures, needs, and applications of solid state transformers are discussed. The global market of SST has continuously improved because it has several applications and benefits.

[Chapter Preview](#)

Manish Kumar Aghwariya (THDC Institute of Hydropower Engineering and Technology, New Tehri, India), Amit Kumar (THDC Institute of Hydropower Engineering and Technology, New Tehri, India), Ragini Sharma (KIET Group of Institutes, Ghaziabad, India)

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Chapter 8

Low Cost Compact Flexible Textile Antenna With Partial Ground (pages 98-107)

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Chapter 9

Optimization of Textile Antennas Using Flexible Dielectric Material (pages 108-118)

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Review on the Development of Solid State Transformer (pages 119-126)

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A Study of Smart Grid Systems (pages 127-138)

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Introduction

Solid state transformer which has the same working principle as conventional transformer with bi-directional power flow, consisted of using several power electronic switching devices and a high frequency transformer (Ronan et al., 2002),(Qin & Kimball, 2009). SST also known by different name such as Intelligent universal transformer (IUT), power electronics transformer (PET) and Energy control centers (ECC) (She et al., 2013). The solid state transformer (SST), which has been regarded as one of the 10 most emerging technologies by Massachusetts Institute of Technology (MIT) (Bowers et al., 1980) in 2010, has gained increasing importance in the future power distribution system. Basically the transformer enables the efficient and long distance transmission (Electronicsforu, n.d.). To overcome the deficiencies of traditional transformer like heavy weight, larger size and current limiting problem, solid state transformer was first introduced by William McMurray in 1970 (McMurray, 1971), but it cannot compete as conventional transformer because it had less efficient as conventional occurred. Figure 1 shows the concept of first electronics transformer.

Figure 1. Principle of Electronic Transformer

 978-1-7998-7611-3.ch010.f01

After the development of electronic transformer, the researchers trying to improve the result of solid state devices so that the quality and efficiency of such devices was improved and due to this the efficiency of the electronic transformer also improved. So in this era, in 1980, (Bowers et al., 1980) US Navy sponsored study was conducted to determine the feasibility of replacing electrical power transformer with solid state transformer by J.C. Brows et al.

In 1986, A.L. Goldberg et. al (Goldberg et al., 1987) described the issues related to the design of 1-10 MHz Transformer. They were conduct an analysis of skin and proximity effects in the conductors and measurements of permeability and hysteresis loss in the magnetic material with the computer-assisted study of the relationships between size, efficiency, and frequency.

Pawel M. Gradzki et al proposed a computer-aided tool for design and analysis of high frequency power transformer (Gradzki et al., 1990). This program used a multidimensional minimum search algorithm to design the smallest transformer and size of the magnetic core. The design specification includes current and voltage waveform, desired core shape and material, type of winding etc. the program also calculate the core loss, winding loss, skin effect and proximity effect. Mario Rabinowitz suggested the name of this device as (Rabinowitz, 2003) Compact Transformer.

The solid state transformer was introduced by William McMurray in 1970, but still there is a gap between 1970 to present time in the sense of commercialized application of SST. Because in 1970, this is not technical feasible (McMurray, 1971),(NITC, n.d.) and not comparable with conventional transformer in cost and efficiency. Efficiency is directly related to the ratio of thyristor blocking voltage to the voltage drop during conduction. So initially, it was used in special application (Bowers et al., 1980),(Energy, n.d.) where cost and efficiency are secondary to size and weight. The researchers worked to improve the quality of

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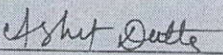
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
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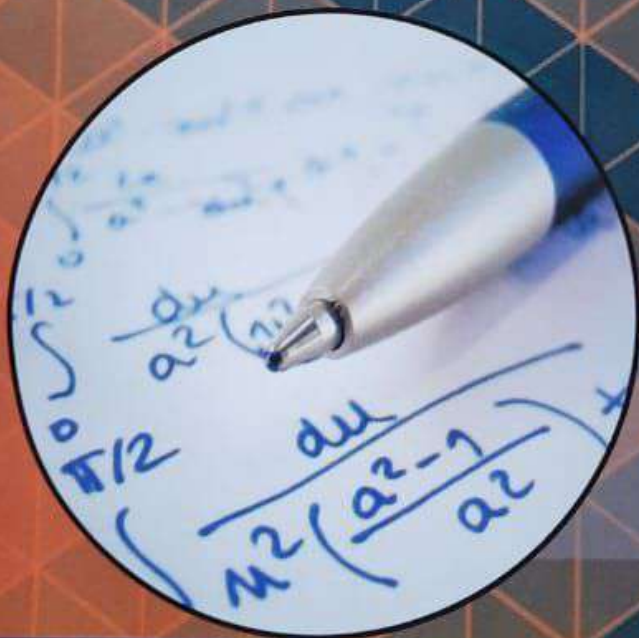

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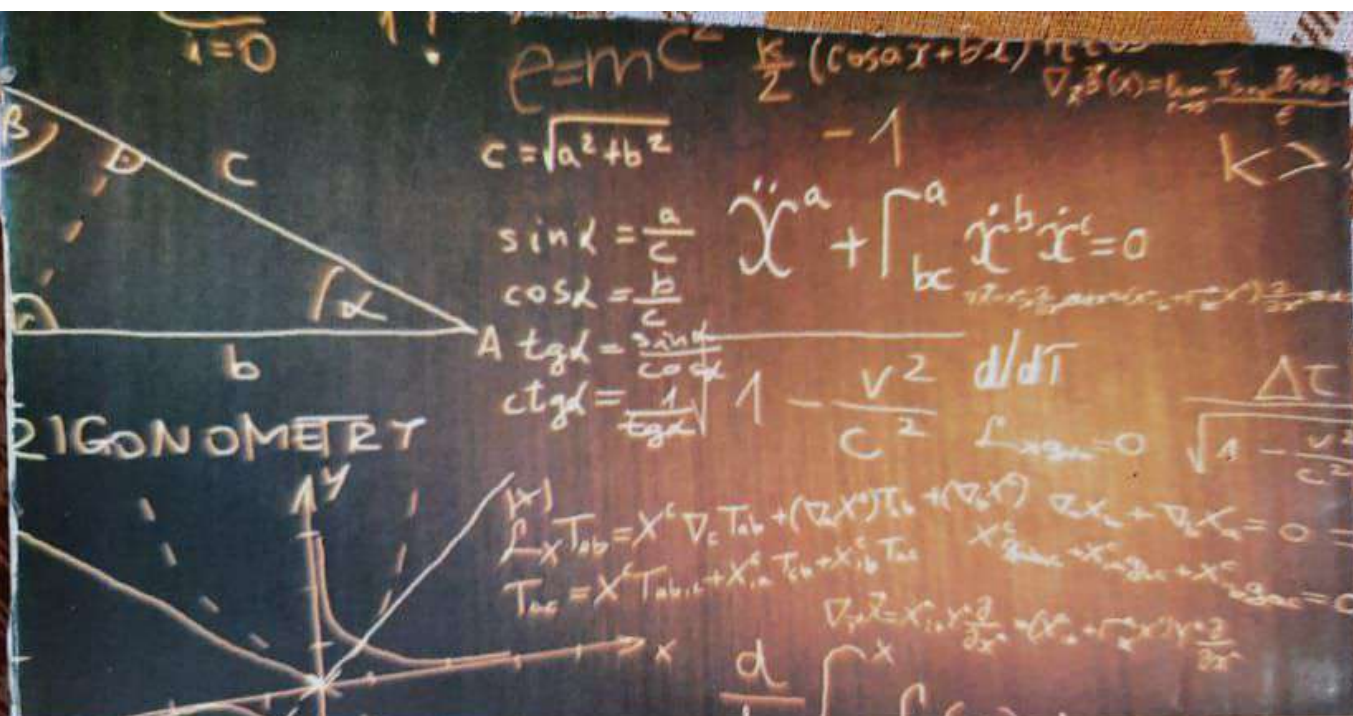
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About the Author



Mr. Manish Kumar is currently working as Assistant Professor in the Department of Applied Science at Eshan College of Engineering & Technology, Farah, Mathura. His specialization in Mathematics. He has completed his graduation from Agra College, Agra in 2000 and Post graduation (M.Sc. In Maths) from Institute of Basic Science, Khandari Agra in 2004. He completed his B.Ed. Course 2006. He has started his carrier as lecturer in 2007 from Sai Nath Institute of Technology, Agra in 2007. He has ten years experience as a lecturer. He has participated various seminar at National level. He engaged in Noble Group for writing Books & study material from last seven years.

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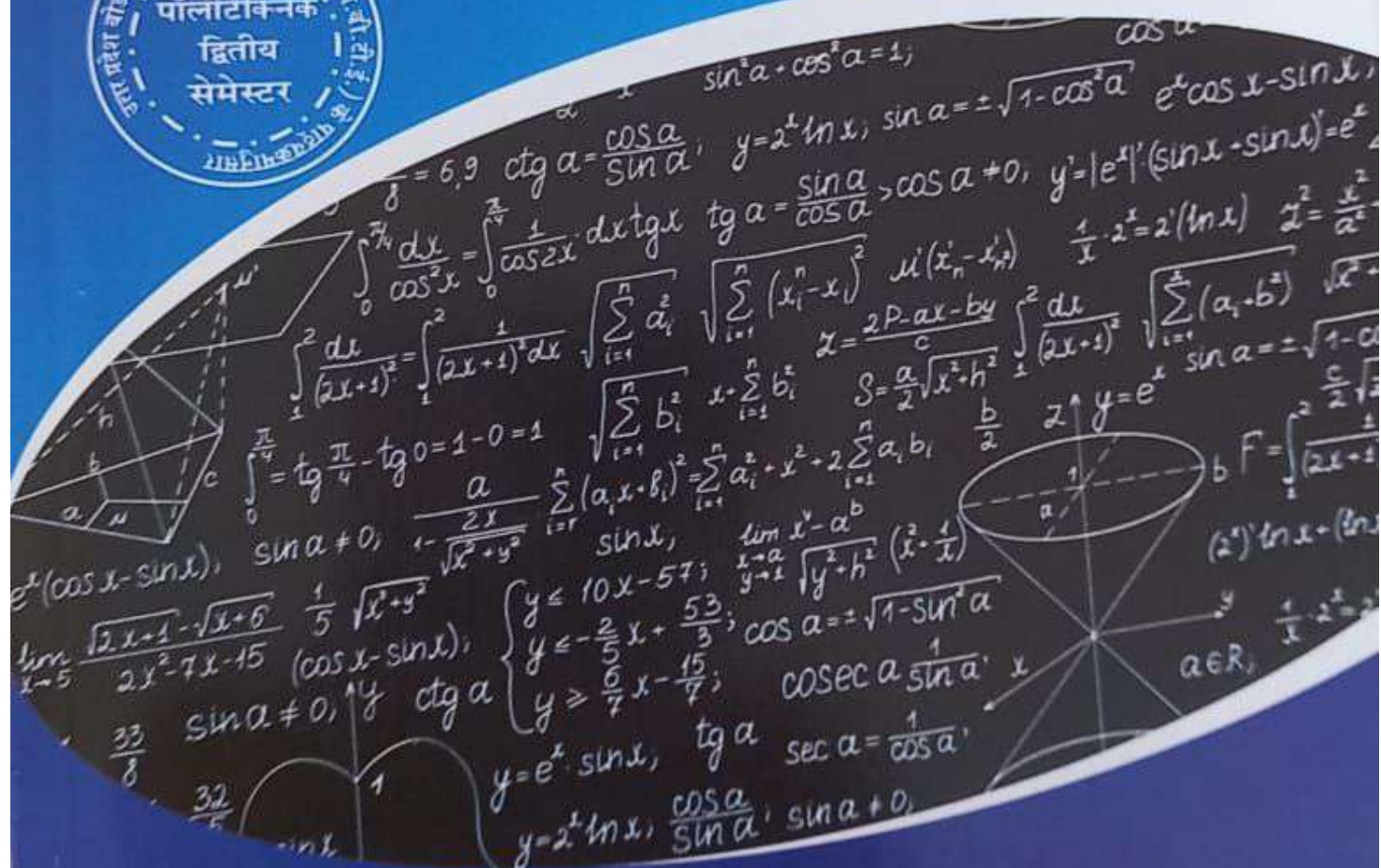
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लेखक परिचय



डॉ. शैलेन्द्र गौतम वर्तमान में ईशान कॉलेज ऑफ इंजीनियरिंग मथुरा (यू.पी.) में गणित विभाग (एप्लाइड साइंस और मानविकी) में असिस्टेंट प्रोफेसर के पद पर कार्यरत हैं। इनकी शैक्षिक योग्यता बी.एड., एम.एस.सी. (गणित) एवं पी-एच.डी है। इनके अनेक शोधपत्र प्रकाशित हुए हैं तथा ये अनेकों राष्ट्रीय सेमिनार में भी भाग ले चुके हैं। इन्हें डिप्लोमा, स्नातक और स्नातकोत्तर स्तर पर 12 वर्षों से अधिक अनुभव है।



डॉ. राजेश कुमार वर्तमान में सचदेवा इंस्टीट्यूट ऑफ टेक्नोलॉजी, फरह मथुरा में असिस्टेंट प्रोफेसर के पद पर कार्यरत हैं। ये पिछले 11 वर्षों से शिक्षा के क्षेत्र में अपना महत्त्वपूर्ण योगदान दे रहे हैं। इनकी शैक्षिक योग्यता बी.एड., एम.एस.सी. (गणित) एवं पी-एच.डी है। इनके अनेक शोध पत्र प्रकाशित हुए हैं तथा ये अनेकों राष्ट्रीय सेमिनार में भी भाग ले चुके हैं। इन्हें जिन विषयों में रुचि है वह विषय है गणित, बिजनस स्टेटिस्टिक्स, ऑपरेशन रिसर्च आदि।

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यद्यपि इस पुस्तक को यथासंभव शुद्ध और त्रुटिरहित प्रस्तुत करने का प्रयास किया गया है, तथापि कोई कमी अथवा त्रुटि मानवीय भूल से रह गयी हो तो उससे होने वाली क्षति के लिए प्रकाशक, मुद्रक एवं विक्रेता का कोई उत्तरदायित्व नहीं होगा। किसी भी वाद-विवाद में न्यायिक क्षेत्र केवल लखनऊ न्यायालय ही होगा।

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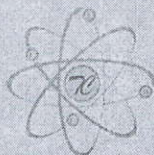
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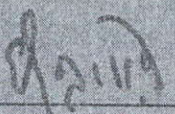
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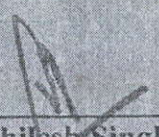
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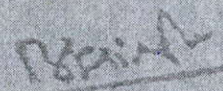
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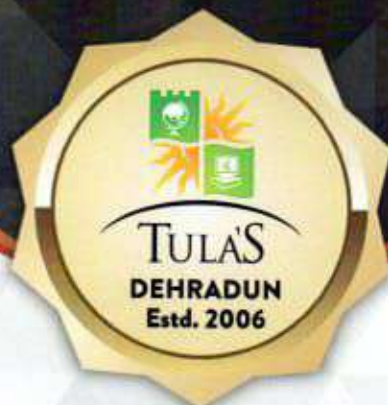

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