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Programme Schedule

Scientific Program and Technical Session

International Conference On Communication and Dissemination of Traditional Knowledge (CDTK-2023)

14-15 February 2023

Organised by
CSIR-National Institute of Science Communication and Policy Research
Venue: A P Shinde Hall, NASC Complex, New Delhi

DAY 1: 14 February, 2023

Time	Activity
7:30 AM - 8:30 AM	Breakfast at Place of Stay
8:30 AM - 9:00 AM	Proceed to Conference Venue
9:00 AM-10:00 AM	Registration and Tea
Inaugural Session	
10:00 AM-10:05 AM	Lighting of the lamp and Saraswati Vandana
10:05 AM-10:15 AM	Welcome Address: Prof Ranjana Aggarwal Director, CSIR-NIScPR

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Web Link:-<https://pubs.aip.org/aip/acp/article-abstract/2717/1/070002/2899694/PV-integrated-interleaved-flyback-inverter-for?redirectedFrom=PDF>

AIP Conference Proceedings

Volume 2717

International Conference on Innovations in Computer Science, Electronics & Electrical Engineering-2022

Ashta, India • 14–15 February 2022

Editors • Maheshkumar H. Kolekar, Smriti H. Bhandari
and Suhas Gajanan Sapate



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



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Cover Page of International Conference on Innovations in Computer Science ,Electronics and Electrical Engineering

PV integrated interleaved flyback inverter for residential application

Shubhangi Patil ; Swapnil Y. Gadgune[+ Author & Article Information](#)

AIP Conf. Proc. 2717, 070002 (2023)

<https://doi.org/10.1063/5.0143447> Share  Tools 

Study of an interleaved flyback inverter using a photovoltaic (PV) AC module system is presented in this paper. By addition of auxiliary branch in conventional flyback inverter with soft switching primary switches are switched on and off. For this purpose, only one auxiliary switch is needed to operate both flyback converter. This auxiliary switch works at soft switching condition which increases the efficiency as well as capacity of frequency and reduces the size of inverter. In addition, due to use of resonant auxiliary cell for low time period there is reduction in conduction losses.

Topics

[Inverters](#), [Photovoltaics](#)

REFERENCES

1. Z. Zhang, M. Chen, W. Chen, C. Jiang, and Z. Qian, "Analysis and implementation of phase synchronization control strategies for BCM interleaved flyback micro inverters," *IEEE Trans. Power Electron.*, vol. 29, no. 11, pp. 5921–5932, Nov. 2014.
<https://doi.org/10.1109/TPEL.2014.2300483>

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3) ACADEMIC YEAR 2021-2022

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ICPTech 2021
23 – 24 NOVEMBER 2021

ORAL

CIET06

Development of A Semi-Automated Soil and Crop Image Analyst Using Smartphones: A Tool to Enhance the Use of Information Systems in Agriculture

Dhawale, N.M.^{1*}, Mat Su, A.S.², Ghewade, D.V.³, Shinde S.A.⁴, Desai, V.P.⁵, Patil, S.A.⁶, and Patil, V.S.⁴

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This work describes the development of a semi-automated image analyst tool to process and analyze soil and crop images captured using smart phones. The tool consists of various client and server side processes. In the current version, the server side is fully automated and the client side is semi-automated. A user manual is provided to the clients to help them follow the right set

First Page of the Paper Published in ICP tech 2021

Real-World vs Simulation - A Study Towards the Development of a Phosphate Ion Selective Electrode (P-ISE)

Nandkishor M. Dhawale

*Associate Professor & HoD, Department of Instrumentation Engineering, P.V.P. Institute of Technology,
Budhgaon, Sangli, MH. India*

Abstract - Phosphorus is a scarce and finite resource on the planet, and its non-gaseous environmental cycle makes access to non-mining means unavailable. At the same time, it is also one of the three most important (N, P, K) phytonutrients. It is added to agricultural soil by applying chemical fertilizer and spraying manure. However, when not completely consumed by crops and plants, it can be mobilized under reduced conditions and enter groundwater and surface water as leachate and / or runoff. To reduce the impact on this issue, research in this area is primarily focused on finding more optimal application rates (manure and chemical fertilizers) and efficient ways to recycle phosphorus. Accurate quantification of phosphate recovery can be achieved by performing a number of real-time, high spatial resolution soil measurements. However, there are currently no commercially available sensors that can measure soil phosphorus in real time on the go. The research described in this white paper is a preliminary attempt to solve this challenge.

and if not completely consumed by crops and plants, can mobilize in reduced conditions and end up in ground water and on surface waters due to leaching and/or runoff respectively [2]. On the other hand according to some researchers, earth's phosphorus is going to reach its peak production by 2030 and the reserves are expected to be completely depleted in 50–100 years. Peak phosphorus is the point in time at which the maximum global phosphorus production rate is reached. Phosphorus is a scarce finite resource on earth and due to its non-gaseous environmental cycle has resulted in alternative means other than mining being unavailable [3, 4].

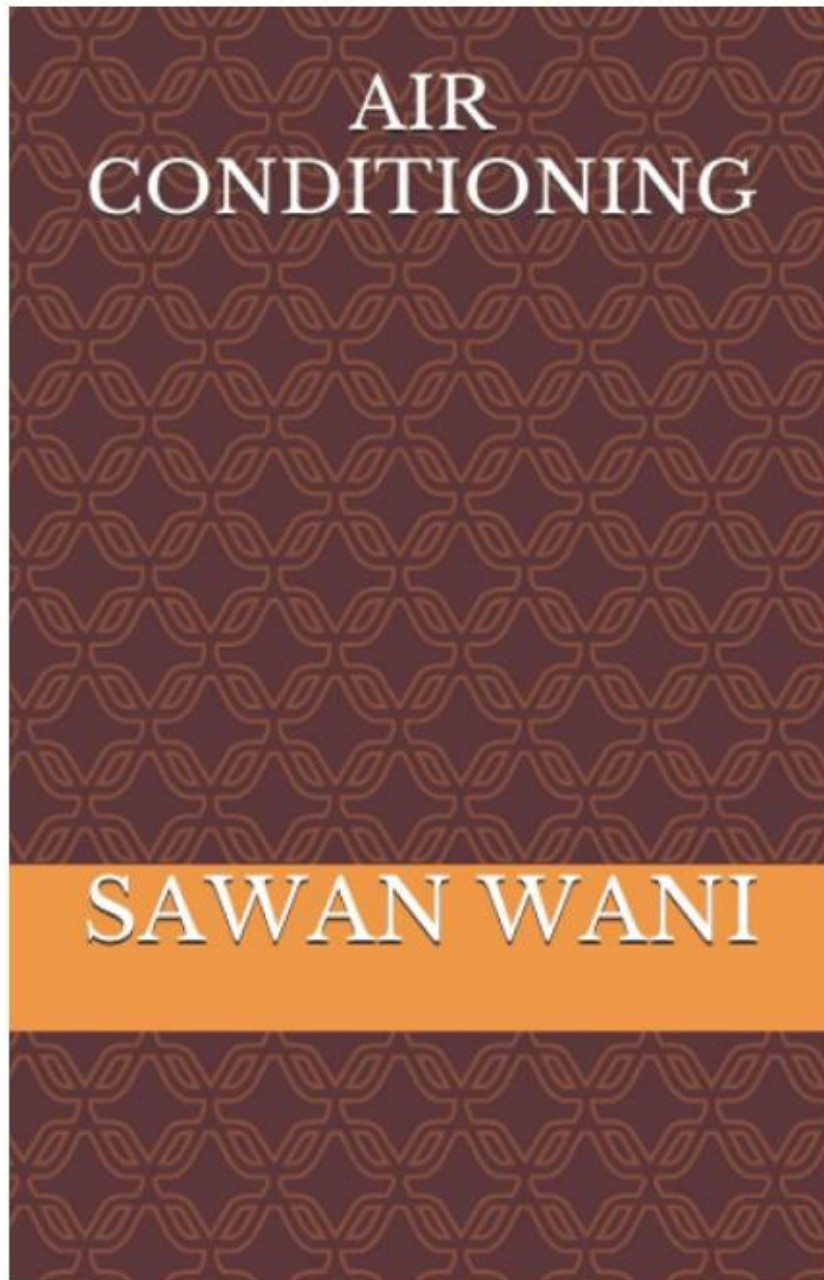
To reduce the impact on this problem, the research in this domain primarily focuses on discovering more optimal application rates (manure and chemical fertilizers) and efficient methods of recycling the phosphorus [5]. Accurate quantification of phosphate application rates can be done by taking large number

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Futuristic Approach

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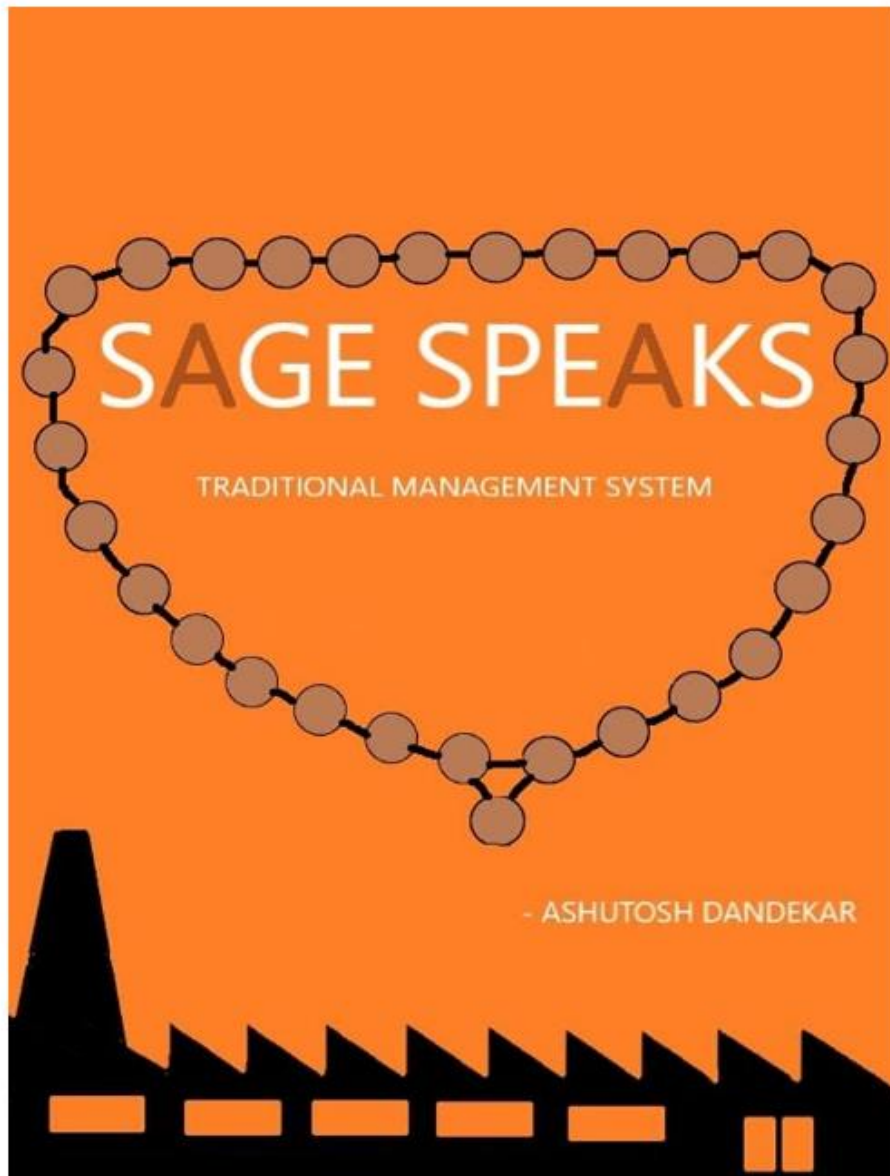
https://www.academia.edu/72186192/Real_World_vs_Simulation_A_Study_Towards_the_Developm_ent_of_a_Phosphate_Ion_Selective_Electrode_P_ISE?uc-sw=98807041

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SAGE SPEAKS

TRADITIONAL MANAGEMENT SYSTEM

To,

ALL TRADITIONAL AND MANAGEMENT GURUS

(Special Thanks to Shree Kutupanand Nath)

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1) THE MANAGEMENT

Content Page of the Book Sage Speaks

Volume 2

SICBM-2021

ISBN: 978-93-91260-12-5

An Anthology of Multi-Functional Perspectives in Business and Management Research



Editors

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Dr. Ramkrishna Dikkatwar
Dr. V K Satya Prasad
Dr. Tanmoy De
Dr. Saradhi Kumar Gonela

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Ms. Dandekar Indraja Amarendra¹, Mr. Joshi Akhilesh Kedar¹, Mr. Dandekar Ashutosh Ramchandra², Mr. Patil Vishal Panduranga², Dr. S.S. Kulkarni³

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Abstract

In the current competitive environment invention management has become an essential practice for inventors and innovators. Decades ago, the educational institutes in India, apart from top institutes like IIT's and IIM's, were not quite aware of the concepts like creativity, invention, and innovation. However, fortunately, the situation seems to have changed drastically in the past two years. The ministry of education has taken the initiative to establish the Innovation Cell in higher educational institutes to boost innovation, resulting in a sudden upsurge in innovation-related activities during academics. Even though all these changes are positive, they are not enough to establish India as an innovation hub on the global platform. Hence to provide the framework for nurturing innovation and its continuation throughout the entire course from school to higher education is the need of the hour. Also, different observations suggest that most of the generated IPR cannot be commercialized; due to various reasons. For overall industrial and technological growth, it is essential to turn these innovations into commercial businesses. Thus, a smart innovation management system is required to be set up at the institutional level and, improved participation of industries is also necessary. The objective of this

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International Marketing Conference
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INNOVATIONS IN CONTEMPORARY MARKETING THEORY AND PRACTICE

21st-22nd April, 2021

ABSTRACTS



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Editors
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Prof. Pratap Chandra Mandal

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Review of Sustainable Marketing Strategies for MSME and Start-ups in the Manufacturing Sector and an Innovation into IT

Dandekar Indraja Amarendra¹, Joshi Akhilesh Kedar²,
Dandekar Ashutosh Ramchandra³, Patil Vishal Pandurang⁴,
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ABSTRACT

In 2015 during the independence speech address, the prime minister of India had announced the Startup India Initiative. Post this announcement, the Ministry of Education established an Institute Innovation Council in the year 2018. The purpose of this startup policy is to boost entrepreneurship activity. India has the world's third startup ecosystem. The total number of startups recognized by DPPIT is above forty thousand. There has been an exponential growth of startups in the past three years. As the government promotes the theme 'going green', green startups and related technologies will have a bright future. However, if we analyze the data, there are few sustainable startups. It is a fact that there is a need to create awareness about sustainable products among the communities, but the main issue is the marketing of sustainable products. The giants have the resources for the formulation and implementation of sustainable marketing strategies. But the MSME sector lacks the same. The purpose of this article is to propose sustainable marketing strategies for startups in MSME and the manufacturing sector and also the methodologies to implement them.

Keywords: Green Marketing, Sustainable Marketing, Green Products, Green Startups

Sample Article the proceeding of the Conference on Innovations in Contemporary Marketing Theory and Practice

e- Proceeding of the International Conference on “Global Trends in Science, Technology, Humanities, Commerce & Management”,(January 1-3,2022)
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Extraction of sugarcane wax from filter cake

Sanjay L. **Bhagat**¹, Sandeep A. Thakur², Pranav Pathak³

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Abstract

*Waxes have important specific properties for food and cosmetic uses, and for cleaning and polishing applications. The knowledge of the characteristics of waxes is essential for their application. Wax recovered from sugarcane (*Saccharum officinarum*) filter cake, a by-product of the sugar and alcohol industry, represents a potential alternative to carnauba, beeswax, and synthetic waxes, considering the enormous resources of raw material in sugarcane growing countries. Crude wax solvent extraction and fractionation were studied in this paper. Filter cake extracted with Benzene yields 6 to 7 % crude sugarcane wax. Purified sugarcane waxes presented analytical indexes similar to those of commercial bee and carnauba waxes.*

Keywords: *Sugarcane wax, Extraction, Press mud, Benzene*

Introduction-

Sugar cane (*Saccharum officinarum* L.) is one of the industrially important crops mainly grown in Brazil and India. India has just over 500 sugar mills, with nine states (Uttar Pradesh, Bihar, Punjab and Haryana in the northern region; Maharashtra & Gujarat in the western region and Andhra Pradesh, Tamil Nadu and Karnataka in the southern region) holding 95 % of them. Most mills are either privately owned or co-operatives

The global production in the year 2009 was reported to be 1900 million tones of which India

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Abstract

Available fossil fuels are decreasing day by day. So the use of renewable sources like alkyl esters (biodiesel) is increasing in CI engines. Biofuel or fatty acid alkyl ester ($C_{13}-C_{23}$) is derived from short-chain alcohols. Various processes are reported to formulate from animal fats and vegetable oils. Alcoholysis is a commonly employed biodiesel preparation method where oil is mixed with suitable CH_3OH or C_2H_5OH and a suitable catalyst. Alcoholysis mainly reduces the viscosity of oils as well as lowers the Sox and NOx emissions from the oil. Various techniques are available to carry out alcoholysis reactions.

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Maize Oil Blended With Diesel as an Eco-Friendly Energy Source

A. P. PATIL, **Dr. A. A. PATIL**

Lecturer, Mechanical Dept., Bharti Vidyapeeth Institute of Technology (Poly.), Kolhapur, India
Associate Professor, Maths Dept., P.V.P.I.T Budhgaon, Sangli, India

ABSTRACT: Petroleum – based fuels is a finite resource that is rapidly depleting. Consequently, petroleum reserves are not sufficient enough to last many years. Considering also the fact that petroleum – based fuels, can cause many environmental problems, imbalance of trade, high oil process etc., it becomes necessary the development of alternative fuel sources. At this paper will be examined the use of diesel-maize oil mixtures in diesel four-stroke engine. The mixtures used are the following: diesel-5% maize oil (k5), diesel-10% maize oil (k10), diesel-20% maize oil (k20), diesel-30% maize oil (k30), diesel-40% maize oil (k40), diesel-50% maize oil (k50). For those mixtures the gas emissions of carbon monoxide (CO), hydrocarbons (HC), nitrogen monoxide (NO) are being measured and the fuel consumption is also examined

Key-Words: - Bio fuels, maize oil as a fuel, Gas emissions,

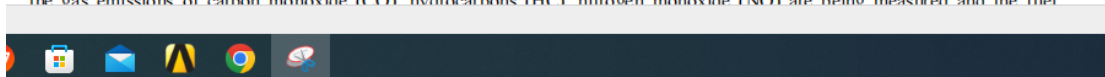
I. INTRODUCTION

Diesel engines have been in use since the late 18th century. The first diesel engine was developed to run on a peanut oil. Once the technology becomes widely known in the 1900's, the abundance and low cost of fossil fuels, caused a paradigm shift away from vegetable based fuels. At the turn of current century, the same paradigm was beginning to shift back, due to rising fuel costs, the environmental impact and an abundance of waste feedstock available. In India, most of the heavy transportation plants, agricultural plants and power generation plants are powered by diesel engines. Thus there is a demand to find alternative fuels for diesel engines. It is thus very essential to make all possible efforts to search for alternative fuel oils.

A number of renewable energy sources, have been considered to achieve the above objectives. Some of them are Biogas, Alcohol, Hydrogen and vegetable oils. Particularly in tropical countries like India, oil seeds are produced by cultivation. Therefore vegetable oils are more dependable, sources of energy.

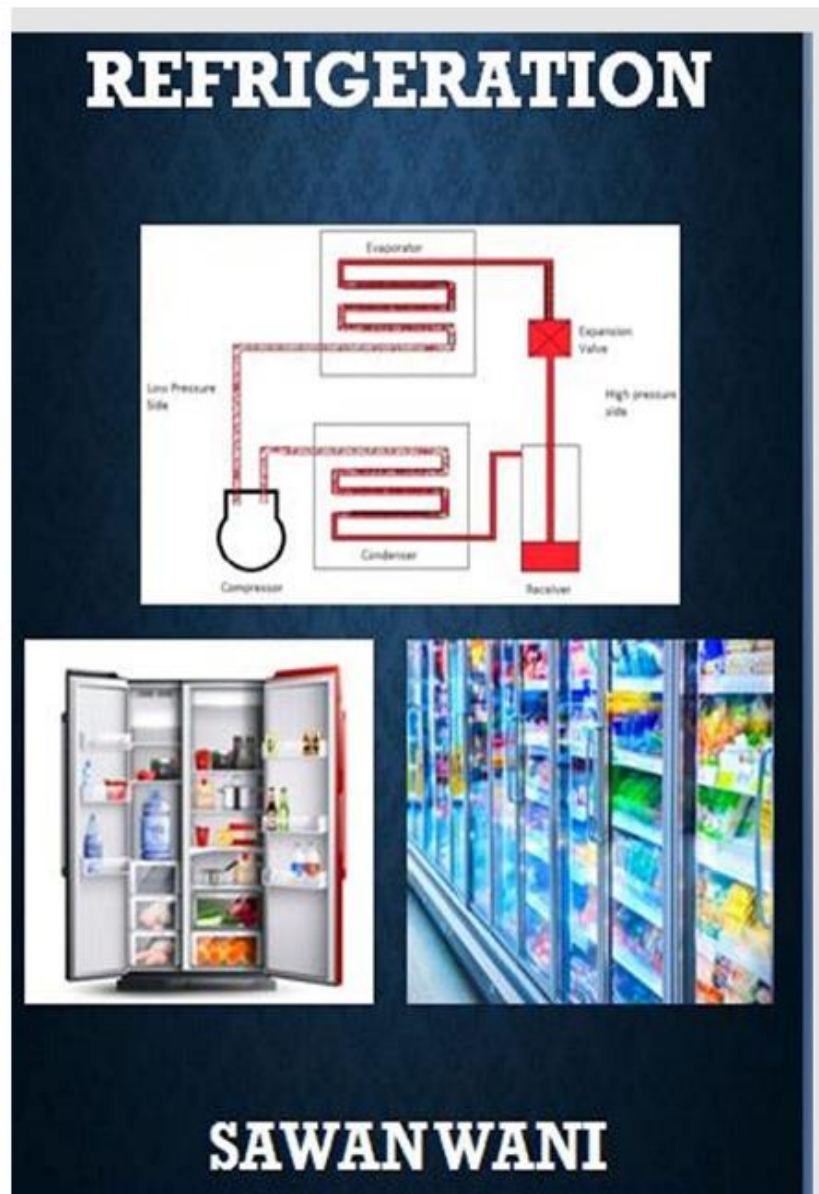
In the present conditions, even though the use of diesel is less expensive in engine in course of time, the natural sources will be exhausted and hence its price is bound to increased, then it would be appropriate to use vegetable oils as fuel oils. If vegetable oils are used as fuel oil, there is wide scope for, huge production of oil seeds. Hence cost of vegetable oil automatically will come down. In the present work, a study of the performance of C.I. Engines with maize oil and diesel blends, as fuels are made. The most serious drawbacks for vegetable oils, however is, it's very high viscosity, thus making is very difficult to inject into the cylinder and higher carbon residue, which makes, exhaust smoker than diesel oil.

In this paper, to study the performance characteristics, the experimental setup consists of a single cylinder four stroke diesel engine, coupled to eddy current dynamometer. The mixtures used are the following: diesel-5% maize oil (k5), diesel-10% maize oil (k10), diesel-20% maize oil (k20), diesel-30% maize oil (k30), diesel-40% maize oil (k40), diesel-50% maize oil (k50). For those mixtures the gas emissions of carbon monoxide (CO), hydrocarbons (HC), nitrogen monoxide (NO) are being measured and the fuel



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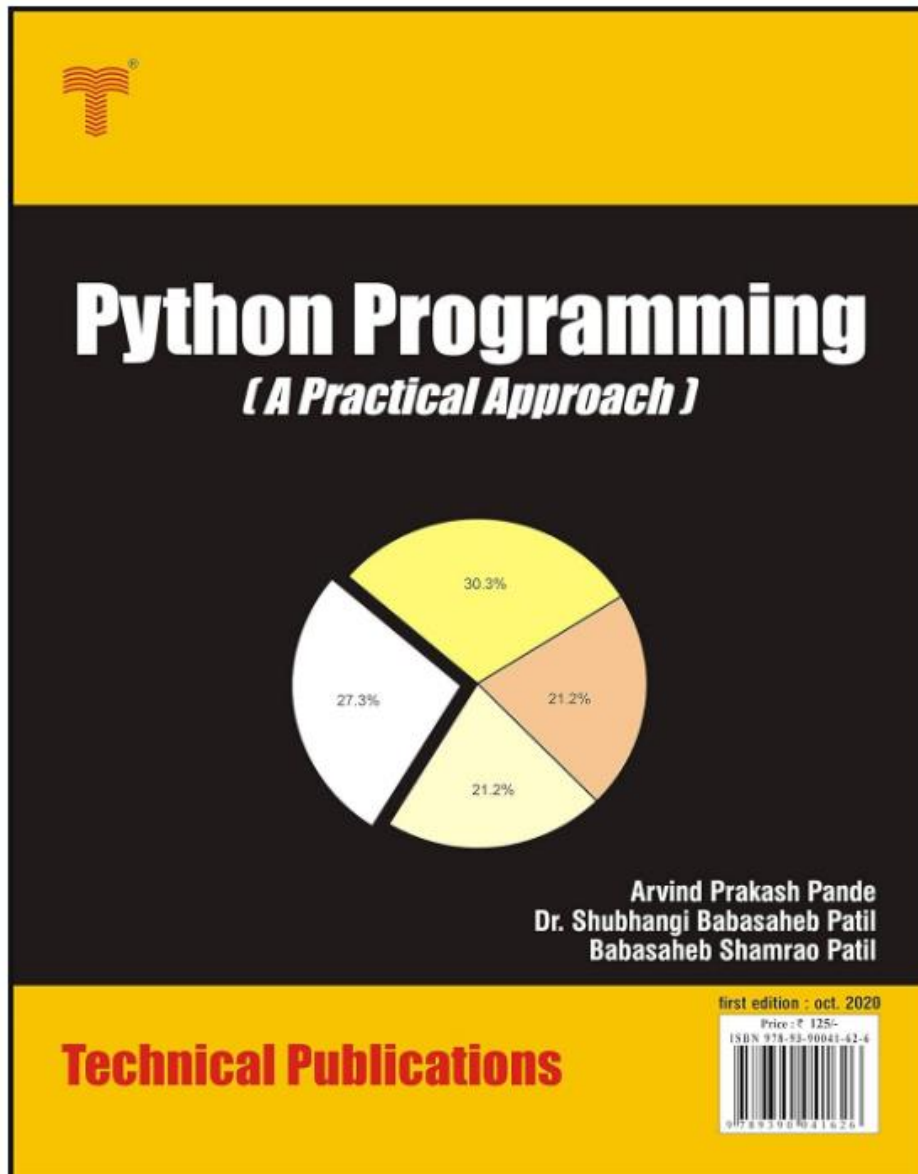
SYSTEMS

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Ashutosh Dandekar , Akhilesh Joshi, Indraje Dandekar, Narayan Hargude, Amod Shrotri & Satish Kulkarni

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Abstract

The traditional Indian knowledge system has always encouraged skill-based learning, wherein entrepreneurs played a key role in society. As per the ancient Indian culture, there are thirty-two streams of 'Vidyas; (Knowledge) and Sixty-four types of the 'Kalas' (Arts). Every Indian village was a self-dependent and smart village in those times. There was a system called 'Bara Balutedars', which was implemented to drive the routine administration as well as the economy of the village. The system could be considered as the backbone of the rural economy. However, after the nineteenth century, it was disintegrated gradually. Especially, after globalization, the condition of Indian villages worsened and the prolonged effect of the policies adopted at that time can be observed even today. The rural population in India is facing difficulties regarding education, healthcare, and entrepreneurship. Today, the rural Indian economy is mostly based on agriculture. Other businesses associated with agriculture like poultries, dairies, cattle-farming, etc. are also contributing. However, apart from agro-based industries, the establishment of other industries is necessary to boost the entrepreneurship in rural areas. The purpose of this article is to put forth the facts about traditional Indian knowledge system and how the traditional products like cow products can be helpful in foundry businesses to encourage entrepreneurship in rural India.

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Exponential Grey Wolf Optimization Technique for Quick Centroid Assessment in Data Clustering

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Date Written: January 20, 2021

Abstract

Current things in bunching tell that molecule swarm grouping (PSC) might be a precise instrument for settling distinctive bunching undertakings. This work updates a few sections of the PSC calculation and shows why and how the necessities are to be an endeavour for enhancing its proficiency and duplications of PSC. In this current work, we alluded to it as quick centroid appraisal (RCE). RCE makes effortlessness in updating of PSC rules and unequivocally decreases general computational many-sided quality by expanding the effectiveness of the molecule courses. On standard assessments with a manmade datasets which has eighty measurements and a size of 5000, Rapid Centroid Estimation variations having emphasis time of under 0.1s, which it analyses to the redundancy times of 2s for PSC and altered PSC (mPSC). On UC Irvine (UCI) machine learning datasets, RCE deviations are a lot faster than PSC and mPSC, and make groups with the greatest cleanliness and exceptionally upgrade in advancement speeds. For instance, the RCE variations are more than 100 times quicker than PSC and mPSC in view of the UCI bosom tumour dataset. It can be chosen that the RCE variations are more slender and quicker than the PSC and mPSC and that the current streamlining strategies ought to likewise expand the predominance of bunching and duplicability.

Keywords: RCE, PSO, Computational Complexity, Dataset

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Journal of Physics: Conference Series

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Smart Phone Camera based Weighing Scale for Kitchens in Household Applications

Vaishali S. Patil¹, Santosh A. Shinde¹ and Nandkishor M. Dhawale²

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References ▾

▾ Article and author information

Abstract

Measurement of physical variables is the most important task in manufacturing, production and trading of each and every produce. E.g. our clothes cannot be stitched properly without taking bodily measurements by a tailor. Household furniture if produced oversize cannot be brought inside homes if the measurement's of door at entry was not considered in prior. Kitchen food cooked by every fellow Indian sisters, mothers, and daughters can produce some mouthwatering tastes, only if all cooking ingredients were mixed in the right proportion's, else many have experienced the odds, with special attention to salt, sugar, chili powder, turmeric powder, and other spices. Cooking food is an art and science both and the ingredients to be added in proportion are measured in prior using tools such as measuring spoons, cups and sometimes using weighing scales. Often measurements are carried with confidence of eyes and hands without use of tools, with special attention if one does not have a

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