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a.	Dr. M Udeya Kumur	A Novel analysis and developments in Heat Bachargers	NA	NA	NA	International	Arguer 2021	ISBN: 978-620-4-20415-4	Territori acadomie publishing	lambert academic publishing
2	Dr. M Udayo Kurtar	NA	Companyive study of Plain and Twisted doots in Heat markle	(Springer)Composative study of Plain and Twisted ducts in Hest terrafic	3 of International Conference on Intelligent Memolectoring and Energy Sustainability	Interneticeul	Datas 18-19, 2021	ISBN 978-981-16-6481-6 a- book ISBN 978-981-16-6482-3	NA	Intelligent Meridicchering an Energy Souternshilly Smart Internations contants and architectory
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4	Drfl I. 2.5 wai	IWCASME 20	Experimental study on the influence of the presence of miceral attractions and stud- fiber on the elastic properties of arMeromatrine conserve.	Experimental study on the induces of the presence of relieval admixtures and post four on the elastic properties of self-community accepted.	IOP Conference series: Material Science and Engineering	Invertextional	Nov-2020	https://ingtainee.ing. org/article/10.88880/757- 892X/922/3012011/mate	Mothodist College of Engineering and Technology	50P Publishing
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The present work experimental and simulation investigations have been carried out to study heat transfer, friction factor characteristics of a plain and twisted square ducts, with and without inserts. The experiments are performed for the airflow rate through the tested duct fitted with inserts for Reynolds number varied from 8000 to 40000. To reduce pressure drop and enhance heat transfer, twisted square duct is newly introduced without previous research available. The investigational work has been carried out and the experimentation is completely based upon design of experiments to get the optimum heat transfer rate and lesser pressure drop. Therefore the various process parameters studied are: temperature, velocity, mass flow rate, duct geometry, and shape of inserts. The pertinent parameters of tested duct elements include circular rod inserts, twisted shape square duct with twist ratio 6.12. Influences of these parameters on heat transfer and energy loss due to friction are studied in terms of Nusselt number and friction factor. It seems that twisted square duct is more potentiality in terms of heat transfer due to higher turbulence and twisted shape. It is observed

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A Novel Analysis and Developments in Heat Exchangers

Heat Exchangers



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Total experience in teaching -20 years



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A Novel Analysis and Developments in Heat Exchangers

FORAUTHORUSEOMIX

Smart Innovation, Systems and Technologies 265

A. N. R. Reddy Deepak Marla Margarita N. Favorskaya Suresh Chandra Satapathy *Editors*



Intelligent Manufacturing and Energy Sustainability

Proceedings of ICIMES 2021





Chapter 54 Comparative Study of Plain and Twisted Ducts in Heat Transfer



M. Udaya Kumar and Gadi Karthik

Abstract The experimental and simulation investigations are meted out to review heat transfer, friction characteristics of twisted and plain ducts. In the present work, Reynolds number varied from 7000 to 40,000 the flowing fluid is considered as air. Twisted duct is a new invention to reduce pressure drop and also increases heat transfer. The practical work has meted out and also experimental setup depends on plan of investigations to induce the best possible warmth transmit and less significant in pressure fall. Then, numerous parameters are such as: hotness, flow rapidity, mass flux, inserts. Twisted ratio of the duct is considered as 6.12. All values and analysis are considered in terms of Nusselt number and Reynolds number and friction factor. The outcome of the experiment shows that twisted duct Nusselt number shows 1.90 times more than the plain duct and also thermal performance of the twisted duct is obtained as 1.43. In this current work, numerical simulations are performed by using ANSYS 18.2FLUENT. In the present work hotness transmit, statistical flow patterns like heat transmit, frictional resistance graphs of twisted and smooth ducts are studied.

54.1 Introduction

Heat exchangers are mechanical appliance to pass on warmth power from one section to a different one by the use of exterior region. Al Mudhafa et al. [1] numerically investigated about new modified webbed heat exchanger, and these

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Please note that the LNCS editorial assumes that all authors have used the western naming convention, with given names preceding surnames. This determines the structure of the names in the running heads and the author index.

M. Udaya Kumar $(\boxtimes) \cdot G$. Karthik

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Prediction of Anemia Disease Using Classification Methods



Sagar Yeruva, B. Pavan Gowtham, Yendluri Hari Chandana, M. Sharada Varalakshmi, and Suman Jain

1 Introduction

A Normal Blood flows through a small circular shape which carries oxygen to organs of human body parts which is circular in shape and the life span of each cell is approximately 120 days and a new blood cell is generated for every 120 days [1]. SCA is a kind of abnormal blood disease which affects hemoglobin within the RBCs. The shape of the sickle cell is disc shape which is sticky and rigid, which causes stoppage of blood flow in the human body. It is also observed that the life span of sickle cell is 10–20 days [2]. Due to the presence of sickle cell in hemoglobin, it may cause severe episodes of pain, death of tissue, and serious complications, in some cases it may lead to death [3].

In above Fig. 1, we can clearly see that the normal blood flow passing oxygen to all parts without stoppage of blood, where sickle cell shape is sticky and due to that blood flow will stop at any stage. Due to the stoppage blood flow may cause severe body pains and heart strokes, etc. Sickle cell was observed in the black population, later it has been observed in other ethnic group, which includes Middle East, Mediterranean

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Experimental Study on the Presence of Mineral Admixtures and Steel Fiber on the Elastic Properties of Self-Compacting Concrete (SCC)

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Experimental Study on the Presence of Mineral Admixtures and Steel Fiber on the Elastic Properties of Self-Compacting Concrete (SCC)

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ABSTRACT: The elastic properties like young's modulus and poison's ratio are critical issues in the design of concrete structures. This technical paper focuses on the influence of the mineral admixtures like flyash and condensed silica fume along with percentage of steel fibers on the compressive strength and elastic properties of self-compacting concrete (SCC). The flow ability, passing ability along with the segregation resistance tests were conducted. Designed the M40 grade of SCC as per American concrete institute (ACI) provisions. The cement is mingle with flyash(FA) at 20% and condensed silica fume(CSF) at 10% as partial replacement by weight. The steel fiber of diameter 1mm and aspect ratio of 40 mixed at 0.2, 0.4, 0.6, and 0.8 percentages by volume of the concrete. The Young's modulus and Poisson's ratio are resolved as per American standard for testing materials (ASTM) specifications. Based on the experimental investigation, conclusions drawn on the contribution of mineral admixtures and steel fiber on the compressive strength and elastic properties of SCC.A mathematical model developed and checked the validity of the equation with the experimental results.

Keywords: Aspect ratio, Condensed Silica Fume, Chemical admixtures, Poisson's ratio, steel fibers, Young's modulus.

1. Introduction

The structural strength of the concrete is mainly dependent upon the mix design, physical, and chemical properties of the ingredients. Compaction and curing also influence the hardened properties. Self-Compacting Concrete (SCC) defined as concrete material which doesn't require any external compaction for formation of dense mix. This type of special concrete is mainly used for placing in dense reinforcement where compaction is difficult. The SCC is also used in casting of thin concrete structural elements like plates and shells. SCC developed in Japan in late 90's. Initially Okamura, Ouchi, and investigated this special type of concrete. Later many researchers carried out the Ozawa experimentation on the rheological behaviour, structural properties etc. The researchers also studied the influence of admixtures on the structural properties along with the addition of fibers in it. Basically concrete is strong in direct compression, by adding fibers in the concrete matrix the tensile and flexural strengths were improved. But the percentage of these fibers in SCC depends upon their physical properties. For steel fibers it is limited to a particular percentage of volume of the concrete, so as to avoid the obstruction of flow ability. By adding admixtures to the concrete, the properties in fresh stage are not only improved, but the strength properties in the hardened stage also enhanced. The chemical admixtures like superplasticizer (SP) improves the flow ability of the concrete. The viscosity modifying agent (VMA) modifies the segregation resistance. The percentage of these admixtures depend upon the properties of the ingredients used in the mix.

2. Literature review

In late 90's Okamura.H, along with his team of scientists developed the ideology of SCC. This type of the concrete developed at that time for better strength and durability by using supplementary

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39. Impact of Climate Change on Hydrological Parameters

Authors: Arunima Priyadarsini Patnaik, Bandita Naik

Publisher: Springer International Publishing

Published in: Climate Change Impacts on Water Resources

Abstract

The increasing rate of global surface temperature is going to have a significant impact on local hydrological regimes and thus on water resources; this leads to the assessment of water resources potential resulting from the climate change impacts. The main parameters that are closely related to climate change are temperature, precipitation and runoff. Therefore, there is a growing need for an integrated analysis that can quantify the impacts of climate change on various aspects of water resources. Quantifying the impacts of land-use change and land cover practices on the hydrological response of a watershed have been an area of interest for hydrologists in recent years as this information could serve as a basis for developing sound watershed management interventions. The degree and type of land cover influence the rate of infiltration, runoff, and consequently the volumes of surface runoff and total sediment loads transported from a watershed. It often results in significant degradation of land resources such as loss of soil by erosion, nutrient leaching and organic matter depletion. However, very few studies in India have used the physically-based hydrological models along with the land use/land cover change conditions. Hence in this current work SWAT model has been used to assess the impact of LU/LC changes on daily and monthly streamflow of Mahanadi River Basin of Sambalpur region. The results of the study indicated that the though land-use patterns have changed, resulting in an increase in agricultural, barren and buildup land and decrease in forest cover leading to an increase in the runoff, but changes have not occurred as significantly as the changes in annual streamflow. However, the number of days of high-intensity rainfall has increased over a decade, which, along with the land-use changes, explains the increase in streamflow.

16 River Modelling Using HEC-RAS Software

(Case Study on Madhira to Keesara)

¹B. Vamsi Krishna, ²S. Bhoomesh, ³K. Ramesh, ⁴A. Mudhusudhan

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ABSTRACT

River Modelling is equipped with, to find out the unknown parameters like depth of the river, water quality analysis, velocity of the flow, etc.; river modelling is done mostly in flood prone areas where the rate of flow is very high. Hydrological factors like size and shape of the river, discharge, steady and unsteady flow of river waves, rainfall on the river basin, temperature, and type of soil, land use and topographical data play an important role in hydraulic modelling for a river flow. This work deals with the The application and focus of river modeling as part of flood relief systems from River Madhira to Keesara. After a brief overview the equations used for steady and unsteady simulations, collection of hydrological andtopographical data is discussed. A one dimensional hydraulic model from river Madhira to Keesara flow was developed. The model was calibrated for river flow measurements for an observed 1 year timeframe. HEC-RAS 4.2 was used to model river flow which is based on the geometry and steady flow.

Keywords: River Modelling, HEC-RAS, Topography, Hydrology.

Introduction

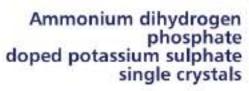
A model reflects an idealization of the actual situation. Every model is ideal, but the main aim of modelingis to ensure that the representation is appropriate for the use. Models in river basin were used to help develop equitable and fair long-term agreements and/or short-term plans for water sharing in transboundary basins. A model of river basin describes mathematical processes in a river basin, which can predict the behavior of a basin under various conditions or management perspective. The single crystab of 2 wt% ADP doped K₂SO₂ crystal was synthesized and white coloured good optical guality single crystals were grown decorated write an isolent by sites executions solution growth technique at norm temperature. From the angle crystal XBD, the doped K₂SO₂ crystal belongs to ortherhomic solution, which an isolection technique at norm temperature. From the angle crystal XBD, the doped K₂SO₂ crystal belongs to ortherhomic solution of the doped K₂SO₂ crystal belongs to ortherhomic solution. From the powder XBD, appearance of the growth crystal. The doped K₂SO₂ crystal is active in the UAMs region and it has good transparency of about TON with lower cut-off washingth 300 nm. The band gap of the crystal is active in the UAMs region and it has good refractive index of found to be 1.37 at S32 nm. Frem the microhemic solution, the hardness where found is to be n = 3.1, then the crystal belongs to solt material concerns. The SMD efficiency of doped K₂SO₄ is 0.457 times greater than that of NDE It is found that the conservation efficiency of the deped crystal is greater than pure K₂SO₄.



A Rathka A Arun Kumar



Dr. A. Bathka is currently working as a Assistant Professor, in Department of Physics, Mindim Arts Callege Instantiancosk, Tarekhada, India N. A. Ann Athura is duriently working as a Associate Professor is Department of Physics 84 & Sci, Morthodit Callege of Engineering & Tachnology, Absta. Hyderabad, Telangana, India







Crystals find their applications is alreast every branch of source such a orientonium lasers, proze electric, ferro electric and iR sentove crystal and crystalisms thin firm, photo volve critic photo infractive enrytal and crystals and computer industries etc. Hence in fine material world the growth of crystals has became unaveitable for future epidemic to applications demonit good quality single crystals which inherit larger NLC coefficient coupled with improved physical parameters. However, the organic crystals are demonstrated in terms of poor dismital intability mechanical strength and performance at low and high temperatures. The above mestored disalitations crystals which drane the properties of both crystals are inserted anguster crystals which drane the properties of both crystals are never cooling. In the present work, NLC active angle crystals or SPP0 has been accessfully grown and their characterization has been related.

> Dt. E. Negapandisalle is surrently working as a a Assertant Protestor in Department of Physics, SSN Callege of Engineering, Kalvaskian, Tamilhadu. Dr. A. Anu kumar is sumeetly working as a Aussista molessor in Department of Physics, Methodol Callege of Engineering and Technology, Hyderabol, Telangana

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NagapandaeM P ARUN KUMAR A

SODIUM PARANITROPHENOLATE PARANITOPHENOL(SPPD) OPTICAL SINGLE CRYSTALS



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P Saranya E Sindhuja A Aust kurner



Mrs. P., Sananya in surreenfly working as a Assistant. Professor in Theiranai Annual College for Nemers, Wilspanners, No. 5, Sinche a., working as a Assistant Professor in Theorem Annual College for Workers, Wilspanner, Dr. A. Anan Kenar, warking as a Associate Professor in Dagastroant of Project, Martsodie College of Engineering & Technology, Hydershail.



Injection Molded Vetiver– polypropylene (Pp) Composites



Electric Vehicle Adoption to Revolutionize Automobile Sector

Dr Yogini Dilip Borole Dr.V. Sharimugasundaram Jarapala Ramesh Babu Dr. Anurag Shrivastava



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Abstract Document Sections INTRODUCTION I. RELATED WORK	Abstract: In the present digital technology world, Static Random Access Memory (SRAM) plays a vital role in providing memory storage for sensitive devices. In this paper, AAM is required to manage the entire 6T-Static Randam Access Memory leaf cell design. The aim of proposed work Auto Awake Mode 6T-SRAM-(AAM-6T-SRAM) design is to reduce power employment in read and write operation and also to decrease the delay using 20nm Finfet Technology. The simulation results are obtained in the proposed AAM-6T-SRAM design by varying the power supply to decrease power utilization of RD & WR respectively. This decreases the delay, which means speed enhancement but the area remains constant, these parameters are carried out by using Mentor Graphics tools.						More Like This Characteristics of the full CMOS SRAM cell using body-tied TG MOSPETs (bulk FinFETs) IEEE Transactions on Electron Devices Published: 2006
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Slot Loaded Capacitive Fed Suspended RMSA with Meandered Ground Plane: A Recent Study

Nandini M. Ammanagi^{1*} and Ravi M. Yadahalli²

DOI: 10.9734/bpi/naer/v14/3758F

ABSTRACT

Variations in capacitive fed suspended RMSA systems are proposed in this research. Initially, the reference antenna consists of a rectangle patch measuring 35.5 X 45.6 mm² and a small rectangular feed patch measuring (1.4 X 4) mm² both of which are suspended above the ground plane on the same substrate. Probe feed or coaxial feed is popular and widely used in MSA as it can feed the patch at any arbitrary position without much difficulty. The small patch is fed with a coaxial probe, which electromagnetically excites the radiator patch, resulting in a large impedance bandwidth (BW) of 39 percent, strong gain and a broadside radiation pattern. The prototype antenna was created by meandering the ground plane of the reference antenna with three rectangular slots, and measurements were taken to validate the outcome for compact broadband response. The prototype antenna in addition to the rectangular slots in the ground plane, and measurements were taken to validate the result for compact dual band response.

Keywords: Coupled capacitive feed; dual band; electromagnetically; meandering slots; Rectangular Microstrip Antenna (RMSA); Reference Antenna (RA); slot loaded.

1. INTRODUCTION

Microstrip Antennas (MSAs) are popular because they are employed in most wireless communication systems and provide number of benefits. However, the limitation of its narrow bandwidth (BW), it is not suitable for use in many wideband communication systems. Though there are other methods [1] for increasing bandwidth, one is to increase the thickness between the patch and the ground plane.

Probe feed, also known as coaxial feed, is a popular and commonly used method in MSA because it allows the patch to be fed at any arbitrary point with no trouble. However, when the height of the substrate rises, the inductance associated with the probe length may cause an impedance mismatch that cannot be avoided. This impedance mismatch can be addressed by incorporating slots into the microstrip patch, altering the form of the probe, or employing a novel feed approach such as capacitive or proximity fed patch [2-3]. A capacitive fed MSA proposed in [2] provides a wide bandwidth of 50% for C band at 5.9 GHz with RT Duroid substrate (RO3003) having $\mathcal{E}_r = 3.0$ and thickness of 1.56 mm. Also, antenna can be made to resonate at any frequency in L, S, C or X-band by optimizing the design parameters.

Increase in the bandwidth of MSA due to increase in the height of the substrate or decrease in \mathcal{E}_r of the substrate both result in the reduction of the resonant frequency of MSA which in turn reduces the antenna size. As reported in [4-5], the meandering technique (embedding slots) in the antenna's ground plane proved to be an efficient method of reducing the size and enhancing the bandwidth of MSA. Variations in slots in radiating patch and ground plane were analyzed for compact and

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Indian Start-up Ecosystem

- Opportunities and Challenges

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Post Pandemic Economy Challenges & Solutions

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Impact of Covid-19 on Banking Sector

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Introduction

Corona virus is spreading and risking the lives of people globally, it has also created a deep economic distress. Most of the companies are facing their revenues and profits getting impacted. There is no doubt that COVID-19 is one of the biggest global events in our life. It has brought unprecedented challenges to many industries, governments and people all over the world. The pandemic is still a health and humanitarian crisis, with profound and far-reaching effects on business and the economy. Financial services companies in particular have the opportunity to help consumers and businesses with the economic downturn.

Impact of Covid-19 on Banking Sector

A lot of work has been done. Banks in India are focused on maintaining key personnel in branches and have temporarily relocated personnel to manage customers' online or telephone enquiries. They also deployed mobile ATMs and implemented door-to-door banking for seniors and other customers who need more attention. We expect financial companies to implement video collaboration tools, new chat and messaging software, and other fintech innovations to continue real-time interaction with customers who have followed the social distance specification, some of which have used ordinary consumer applications for this purpose.

Over the past few years, several banks have invested in technology and digital conversion. However, many of these tools still rely heavily on face-to-face interactions supported by the paper process. Therefore, we expect that the Indian financial services industry will energize and banks will work together to enhance their digital meets. This is crucial because COVID-19 may have a long-term impact, and banking business touches all aspects of our economy.

Most banks have solved the direct challenges of COVID-19. These challenges involve protecting employees and providing customers with much-needed services. Now they have the opportunity to become active participants to help alleviate the crisis. They can focus on three key areas to help cope with the current situation

Client Service and Advice

Due to social alienation, more and more consumers are using online banking channels to manage their funds. This can result in customers preferring to permanently switch to digital channels

and increase demand for digital services. It is important that all consumers (including the elderly and increase unfamiliar with digital banking) have access to the bank, provide education on the use of or those units and maintain inventory and service of ATMs. As clients seek help and advice on digital tools, and management and planning for their future hash management and planning for their future hash management and planning for their future hash advice on the seek help and advice on digital tools, and management and planning for their future, banks should prioritize live interactions short-term call prioritize live interactions tools. This increase in digital customer engagement must go hand in through video collaboration tools. This increase in digital customer engagement must go hand in through video correase in cybersecurity and fraud protection tools to protect customers.

Credit Supervision

Even with the Indian government's stimulus plan and the Reserve Bank of India's (RBI) Even with the Reserve Bank of India's (RBI) liquidity measures, banks can expect loan default rates to rise, as borrowers from various client liquidity measures to rise, as borrowers from various client groups face the economic crisis caused by customers' business and job losses Still struggling to groups face the event of the term loan suspension measures and job losses Still struggling to repay. In addition to all the term loan suspension measures announced by the Reserve Bank of repay in addition of the COVID-19 plan, lenders should also consider actively restructuring loans to India, as part of the burden in the short term, thereby reducing recent defaults. The industry reduce the cash flow burden in the financial relief process. reduce the table of the termination of te proactively initiate forbearance and loan modification programs using a data-based approach to proactively in the state of the Even with these programs, some customers may still not be able to make the next payment. Banks should therefore prepare for losses and build the capacity to cope with the increase in credit arrears. As consumer demand increases, although gradually, after blocking, banks will have to change the purpose of their model to market and acquire customers, remembering the changing consumer behavior after COVID-19, as well as focus on digitally native travel and look again at norms insurance to better discover the risk.

Income Firmness

Income from retail and commercial banking is falling sharply as core consumption and transactions have fallen sharply. While central banks around the world are lowering interest rates, banks are lowering returns to generate business, thereby significantly reducing net interest margins. Income from payments and other paid services is experiencing a general decline in conomic activity. Due to measures such as loan moratorium periods, banks' cash flow has also suffered. An overall decline of 10% in banks' payment income, which means a \$ 150 billion decline in the global industry because demand in sectors such as retail and entertainment is falling sharply or moving to online channels, while activity in areas such as tourism and travel They evaporate.

Conclusion

COVID-19 will have a long-term impact on many industries, including banks. After the ctisis, digital maturity and COVID-19 resilience will determine the strategy of bankers with three

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