

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD

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V-TIMES, The College Newsletter



February 14, 2021:Dr. P.Venkateshwar Reddy, Assistant Professor of Mechanical Department was successfully awarded doctorate degree by the Jawaharlal Nehru Technological University – Ananthapur (JNTUA) in the month of February 2021. The topic of his research was ‘Numerical Analysis and a Parametric Experimental Investigation by a Novel Method on the Bulge Forming Characteristics of Tubular Materials.



February 14, 2021:A. Seshappa K. Prudhvi Raj , B. Anjaneya Prasad Fabrication and characterization of aluminium hybrid metal matrix composite with power chillersMaterials Today: Proceedings SCOPUS 2214-7853 February,21 46(1), 786-789
<https://doi.org/10.1016/j.matpr.2020.12.759>



Fabrication and characterization of aluminium hybrid metal matrix composite with power chillers

A. Seshappa ^{a, b}, K. Prudhvi Raj ^b, B. Anjaneya Prasad ^b

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<https://doi.org/10.1016/j.matpr.2020.12.759>

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March 20 2021: Dr.Mukul Shrivastava , Professor , ME Department has delivered a lecturer on the Event of Word of wisdom



March 26,2021: Dr.KVP Chakradhar, Professor, Dept. of Mechanical Engineering published a book chapter with title "Reinforcement of Montmorillonite Clay in Epoxy/Unsaturated Polyester Blended Composite: Effect on Composite Properties" and will appear in the Open Access book, "Montmorillonite" edited by Prof. Faheem Uddin, Intech Open Publishers.

February 28, 2021: Students from second year, Department of Mechanical Engineering- Ms Kandela Sruthi Reddy, Ms. Amogha. C Patil, Mr.Khaja and Mr. Kadarla Mani

Chandana won first prize in poster presentation in the fourth Science and Technology Fair conducted by the department of Freshman Engineering.



S N o	Name of the Inventor(s)	De pt	Patent Title	Refere nce No	Date of Filing	Date of Publica tion
1	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. Ch. Harthik Reddy, 4. Yara Sai Shreeya and 5. Puram Anusha	ME	Cigarette Box With Inbuilt Match Sticks Arrangement	342361-001	13/04/2021	13/04/2021
2	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. Mukul Shrivastava, 4. Ch. Harthik Reddy, 5. Yara Sai Shreeya	ME	Cigarette Lighter With Mouth Freshener	342362-001	13/04/2021	13/04/2021
3	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. D. V. Ramana Reddy, 4. B. Subbaratnam and 5. B. Venkatesh	ME	Coffee Cup With Detachable Handle	342363-001	13/04/2021	13/04/2021
4	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. N. Srinivasa Reddy, 4. P. Ramakrishna Re	ME	Duster With Chalk Holder	342364-001	13/04/2021	13/04/2021

5	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. P. Ramakrishna Reddy, 4. E. Manoj Kumar, 5. M. Vishnuvardhan, 6. Ch. Harthik Reddy	ME	Hand Gripper With Army Knife Attachment	342365-001	13/04/2021	13/04/2021
6	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. Yara Sai Shreeya, 4. Ch. Harthik Reddy, 5. Mohammed Rahil Azeezand 6. Mohd Junaid Moulana	ME	Face Mask With Ear Muffler	342366-001	13/04/2021	13/04/2021
7	1. P. Srinivasa Rao, 2. P. Venkateshwar Reddy, 3. P. Satyanarayana Raju, 4. U. Pranavi, 5. S. Naresh Kumarand 6. Malladi Naga Surya Gayatri	ME	Mobile phone case with safety tools holder	342367-001	13/04/2021	13/04/2021
8	1. P. Srinivasa Rao, 2. P. Venkateshwar Reddy, 3. Ch. Harthik Reddy, 4. N. Srinivasa Reddy, 5. Ch. Chandramouli	ME	Phone case with camera protector	342368-001	13/04/2021	13/04/2021
9	1. P. Srinivasa Rao, 2. Mukul Shrivastava, 3. P. Venkateshwar Reddy, 4. D. V. Ramana Reddyand 5. B. Subbaratnam	ME	Saline bottle with air vent closure cap	342369-001	13/04/2021	13/04/2021
10	1. P. Venkateshwar Reddy, 2. P. Srinivasa Rao, 3. JVR. Ravindraand 4. Ch. Harthik Reddy	ME	Stretcher cum bed	342370-001	13/04/2021	13/04/2021
11	1. P. Srinivasa Rao, 2. P. Venkateshwar Reddy, 3. Yara Sai Shreeya	ME	Syrup bottle with slider cap	342371-001	13/04/2021	13/04/2021

12	1. P. Srinivasa Rao, 2. P. Venkateshwar Reddy, 3. Ch. Harthik Reddy, 4. Yara Sai Shreeya, 5. Jampula Pranay Sagar	ME	Water glass with slider cap	342372-001	13/04/2021	13/04/2021
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April 16 ,2021: Dr. K V P Chakradhar, Professor, Mechanical Engineering Department, has published patent on the title “ A Storage Container with Movable Bottom Closure” in IPINDIA .



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	202141016929
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/04/2021
APPLICANT NAME	1 . Anna Eswara Kumar 2 . H. Jeevan Rao 3 . S. Sudhakar Babu 4 . Chinmaya P. Mohanty 5 . Atul Bhattad 6 . K.V.P Chakradhar 7 . P. Phani Prasanthi
TITLE OF INVENTION	A STORAGE CONTAINER WITH MOVABLE BOTTOM CLOSURE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	jyotiraman.inpa@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	12/04/2021
PUBLICATION DATE (U/S 11A)	16/04/2021

Application Status

MAY 18 ,2021Dr.P. Venkateshwar Reddy Assistant professor has published “Yield criterion influence on the formability prediction of SS 304 by tensile tests and bulge tests during tube hydroforming process Multiscale and Multidisciplinary Modeling, Experiments and Design
ESCI 2520-8179 May/2021 1-10<https://doi.org/10.1007/s41939-021-00096-4>
<https://link.springer.com/article/10.1007/s41939-021-00096-4>

Original Paper | Published: 18 May 2021

Yield criterion influence on the formability prediction of SS 304 by tensile tests and bulge tests during tube hydroforming process

B. Veerabhadra Reddy, D. Kondayya, E. Venugopal Goud & P. Venkateshwar Reddy 

Multiscale and Multidisciplinary Modeling, Experiments and Design (2021) | [Cite this article](#)

63 Accesses | [Metrics](#)

Abstract

Finite element (FE) simulation of sheet/tube forming precision depends mainly on the accuracy of the yield surface shape used in mechanical modeling. The yield surface mainly depends on the number of input variables used to define the yield surface. The present paper's

May 7 2021: Dr.Venukumar S.Dr. Vijayababu, “ Instability in machine tools due to asymmetry and gyroscopic couple”Materials Today: Proceedings SCOPUS 2214-7853 May,21 In Press







<https://doi.org/10.1016/j.matpr.2021.04.258>

<https://www.sciencedirect.com/science/article/pii/S2214785321031783>




materialstoday:
PROCEEDINGS
Available online 7 May 2021
In Press, Corrected Proof 



Instability in machine tools due to asymmetry and gyroscopic couple

Venukumar, S. ^a , Ramagiri, S. ^a , Vijayababu, T. ^a , Sarkar, Pallab ^a , Ashok Kumar, M. ^b , Harish Kruthiventi, S.S. ^c 

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Dr.M Shrivastava Professor Mechanical Engineering Department has published “Numerical investigation on air-cooling enhancement of a motor cycle engine by varying fins geometry”IOP Conference Series: Material Science and Engineering SCOPUS 1757-899X May/2021 1123 1-8 doi:10.1088/1757-899X/1123/1/012045

Numerical investigation on air-cooling enhancement of a motor cycle engine by varying fins geometry

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Abstract. Two-wheeler vehicles are equipped with an air-cooled cooling system. Internal combustion engines generate heat to obtain mechanical energy but non-convertible heat energy is dissipated from engine heat and walls. Air-cooled fins provide extra material with an extended surface area to enhance heat transfer rate. The performance of fins can be increased...

[899X/1123/1/012045/pdf](https://iopscience.iop.org/article/10.1088/1757-899X/1123/1/012045/pdf)

JUNE 5 2021: Dr.Shakti P Jena Associate Professor, ME Department has published “Detection of Faults and Vibration Analysis in Beam Structures - A Review” INCAS BULLETIN SCOPUS 2247-4528 June/2021 13(2) 67-82 doi.org/10.13111/2066-8201.2021.13.2.8
https://bulletin.incas.ro/files/kiran-kumar-madisetty_all_vol_13_iss_2.pdf

Detection of Faults and Vibration Analysis in Beam Structures - A Review

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DOI: 10.13111/2066-8201.2021.13.2.8

Received: 25 January 2021/ Accepted: 15 April 2021/ Published: June 2021

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Abstract: This review focuses on vibrating beam structures with different constraints. The review is also aimed to analyse the different fault detection approaches for condition monitoring of cracks in vibrating structures. The advancement in this field with significant and diversified techniques namely analytical, numerical and experimental approaches are elaborated and presented here. The significance of crack location and the severe effects on the responses of the vibrating structure are discussed. The application

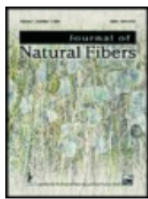
JUNE 8 2021P. Venkateshwar Reddy, R. V. Saikumar Reddy, B. Veerabhadra Reddy, D. Mohana Krishnudu, P. Rajendra Prasad & P. Srinivasa Rao Enhancement of the Dynamic Mechanical and

Dielectric Properties of Prosopis juliflora Fiber- Reinforced Composites by Fiber Modification

Journal of Natural Fibers (0.8)SCIE 1544-046X June/2021 1-18

<https://doi.org/10.1080/15440478.2021.1932676> 0

<https://www.tandfonline.com/doi/abs/10.1080/15440478.2021.1932676?journalCode=wjnf20>



Journal of Natural Fibers



ISSN: (Print) (Online) Journal homepage: <https://www.tandfonline.com/loi/wjnf20>

Enhancement of the Dynamic Mechanical and Dielectric Properties of *Prosopis juliflora* Fiber-Reinforced Composites by Fiber Modification

P. Venkateshwar Reddy, R. V. Saikumar Reddy, B. Veerabhadra Reddy, D. Mohana Krishnudu, P. Rajendra Prasad & P. Srinivasa Rao

To cite this article: P. Venkateshwar Reddy, R. V. Saikumar Reddy, B. Veerabhadra Reddy, D. Mohana Krishnudu, P. Rajendra Prasad & P. Srinivasa Rao (2021): Enhancement of the Dynamic Mechanical and Dielectric Properties of *Prosopis juliflora* Fiber-Reinforced Composites by Fiber Modification, Journal of Natural Fibers, DOI: [10.1080/15440478.2021.1932676](https://doi.org/10.1080/15440478.2021.1932676)

To link to this article: <https://doi.org/10.1080/15440478.2021.1932676>

June19 2021:Dr JVR Ravindra Principal of the college felicitated Dr P Venkateshwar Reddy for receiving an appreciation from Indian book of records for filing 12 design patents in a single day.



August 10 2021:Dr.Venkateshwar Reddy Pathapalli,Assistant Professor, P. Srinivasa Rao Professor and HOD and D V. Ramana Reddy Assistant professor of Me Department has published "Modeling of the machining parameters in turning of Al-5052/ TiC/SiC composites: a statistical modeling approach using grey relational analysis (GRA) and response surface methodology (RSM Multidiscipline Modelling in Materials and Structures ESCI 1573-6105 June/21 DOI: 10.1108/mmms-01-2021-0017

<https://www.sciencegate.app/app/document/download/10.1108/mmms-01-2021-0017>

Modeling of the machining parameters in turning of Al-5052/ TiC/SiC composites: a statistical modeling approach using grey relational analysis (GRA) and response surface methodology (RSM)

Modeling of the
machining
parameters

Received 31 January 2021
Revised 8 April 2021
28 May 2021
Accepted 29 May 2021

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Abstract

Purpose – Metal matrix composites (MMC) has been a section which gives an overview of composite materials and owing to those exceptional physical and mechanical properties, particulate-reinforced aluminum MMCs have