# **CURRICULUM VITAE**

Dr. B. Murali Krishna, FIE, M.Tech (NIT Warangal), MBA (AU), PhD (IIT Madras), CMI (UK)

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#### **Career Objective:**

I believe in hard work and sincerity; will apply my knowledge and skills with full of effort for assigned tasks. Thus, I build my superior confidence through high level of performance for the growth of organization.

#### Summary:

**23 years** of experience in Teaching, Research and Administration with **13 years** as **Professor** and **Principal**; PhD from Indian Institute of Technology Madras (**IIT Madras**); **one** among the 50 Principals from Private and Government Engineering and Management Colleges across India selected for "Further Education Leadership Development Programme" **by AICTE** through **UKIERI** (*UK India Education Research Initiative*).

### Education:

- PhD from Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, in the year 2010 with 8.5 CGPA.
- Post graduation in Thermal Engineering (Design and Production of Internal Combustion Engines and Gas Turbines) from NIT Warangal, India, in the year 2000 with 72%.
- Post graduation in Business Administration (HRM) executive MBA from AU, Visakhapatnam, India, in the year 2018.
- Graduation in Mechanical Engineering, from Institution of Engineers (India), Calcutta, in the year 1998 with 6 CGPA.
- International Certification (UK) CMI (Chartered Management Institute) and Award in Management and Leadership through AICTE-UKIERI.

- Diploma in Mechanical Engineering, from Govt. Polytechnic (SBTET, Hyd.), Srikakulam, in the year 1994 with **83%**.
- SSC (10<sup>th</sup> Class) from Zilla Praja Parishat High School, Makkuva, Vizianagaram, in the year 1989 with 80%.

# Experience:

- Present, Working for Avanthi Institute of Engg. &Technology as a Professor
  & Principal, Near Tagarapuvalasa, Bhogapuram, Vizianagaram, AP, India.
- Worked for Sanketika Institute of Technology and Mgt., Visakhapatnam, AP as a **Professor** and **Principal** since 27<sup>th</sup> December 2019 to 9<sup>th</sup> March2021.
- Worked for NSRIT (formerly named as VITS), Visakhapatnam, AP, India as a Professor and Principal since 16<sup>th</sup>Nov 2012 to 07<sup>th</sup>January 2015.
- Worked for Sri Sivani College of Engineering, Srikakulam, AP as a Professor and Principal since 08<sup>th</sup>July 2010 to 15<sup>th</sup>Nov 2012 & 8<sup>th</sup>Jan 2015 to 24<sup>th</sup> Dec.2019.
- Worked for GMR Institute of Technology (GMRIT), Rajam, AP, India with various designations started from Asst. Prof. to Professor and HOD in the Dept. of Mechanical Engg., since 10<sup>th</sup>January 2004 to 07<sup>th</sup>July 2010.
- Worked for VITAM College of Engineering, Parvatipuram, AP, India as an Asst. Prof. in the Dept. of Mech. Engg. since 20<sup>th</sup> Sep.2001 to 09<sup>th</sup>Jan.2004.
- Worked for Greaves Limited, Aurangabad, MH, India as an Engineer- R&D since 2<sup>nd</sup> May 2000 to 13<sup>th</sup> Sep.2001 [Selected through campus, NITW].

### Research Publications: 94 (List enclosed)

- International: Journals-31 Published, Conferences-29.
- National: Journals-4 Published and Conferences-21
- Articles Published (International) : 06
- Book/ book Chapters Published :03
- Web of Science:08
  <a href="https://www.webofscience.com/wos/author/record/HCI-7323-2022">https://www.webofscience.com/wos/author/record/HCI-7323-2022</a>
- Scopus: 15 <u>https://www.scopus.com/authid/detail.uri?authorId=57350074400</u>
- Google Scholar: <u>https://scholar.google.com/citations?user=8onRDIAAAAJ&hl=en</u>
- ORCID iD: <u>https://orcid.org/0000-0002-9089-7354</u>

# Countries visited: Paris and London for presenting research work

- To present a paper at World Congress on Engineering 2009, London.
- To present a paper at World Academy of Science and Engineering Technology-2009, **Paris.**

# In Industry [Greaves limited]:

- Design, analysis, testing and development of single cylinder four-stroke aircooled and water cooled diesel engines.
- Testing and Development of engines at *Automotive Research Associate* of India (ARAI), Pune to meet Euro Emission norms.

# Projects involved:

- Title of project "Experimental and numerical investigations on cold flow of gasoline direct injection engine (GDI) using Particle Image Velocimetry", at I.C Engines Lab, Dept. of Mechanical Engg., *Indian Institute of Technology Madras*; sponsored by DST, India (18 Lakhs).
- Title of project "Establishment of flow visualization facility-Particle Image Velocimetry", at I.C Engines Lab, Dept. of Mechanical Engg., *Indian Institute of Technology Madras*, sponsored by DST, India (150 Lakhs).

# Resource person:

- 5-Day FDP on "Advances in thermal energy systems, organized by SASI Engg. College, 11<sup>th</sup> -15<sup>th</sup> Nov, 2019.
- 3-Day Workshops on "Advances in image processing and visualization techniques (AIPVT-2015), Organized by SSCE on 30<sup>th</sup> & 31<sup>st</sup> Nov, 2015.
- 2-Day Workshops on "I.C Engines and Advance", Organized by GATE Engg. College on 15<sup>th</sup> & 16<sup>th</sup> February 2015.
- For several Workshops, Conferences, FDPs, Awareness Programmes, Technical Events and Fests as Speaker, Chief Guest, Special Guest, Advisory member, Chair and President.

# Workshops/STTPs: 13

**1].** Participated for one week STTPs (**05 no.**) through ICT mode on "i).Outcome based education and accreditation, during 24<sup>th</sup>-28<sup>th</sup> Sep.2018; ii).Organizational

behavior, during 12<sup>th</sup>-16<sup>th</sup>Nov.2018; iii).Problem based learning, during 11<sup>th</sup>-15<sup>th</sup> Feb.2019; iv).Evaluating student's performance and designing question papers during 25<sup>th</sup>Feb-01<sup>st</sup> Mar.2019; v).Measurement and control for industrial automation, during 11<sup>th</sup>-15<sup>th</sup>Mar.2019 "Organized by **NITTTR** Kolkata,

**2]**. Workshops (**04 no.**) on "Further Education Leadership Development Programme" Organized by **AICTE-UKERI** i).during 28<sup>th</sup> - 30<sup>th</sup> June, 2017 at **NITTTR** Chennai, TN; ii).during 31<sup>st</sup> July-2<sup>nd</sup> August, 2017 at **CV Raman College of Engineering**, Bhubaneswar, Orissa, iii).during 4<sup>th</sup>-6<sup>th</sup> October, 2017, at **SKIT**, Jaipur, Rajasthan and iv).during 12<sup>th</sup> -14<sup>th</sup> January, 2018 at **SP College of Engineering**, Mumbai, MH.

**3]**. Round table conference of vice chancellors of technical universities on "Innovations In Engineering Education With Global Perspective A Blended Approach" organized by **JNTUK in association of Indian universities**, held during 22-23 September 2015.

**4]**. Workshop on "Redesigning of Engineering Curriculum in the Context of Outcome Based Learning" organized by **JNTUK**, held during 24-25 Feb. 2013.

**5]**. Continuing education programme on "Finite Elements in Analysis and Design using ANSYS (FEAD-ANSYS-2007)" during Aug.28-Sep.01, 2007, Organized by Department of Mechanical and Civil Engineering, **Indian Institute of Technology Madras,** Chennai.

**6]**. International Pre-Conference workshop on "Environmental Management (Air Pollution Control Technologies", during 27<sup>th</sup>-30<sup>th</sup> October 2005, Organized by Institute of Science and Technology, Centre for Environment, **JNTU**, **Hyderabad**.

#### Scholar Ships / Grants Received:

- Grant from IIT Madras to present paper at World Congress on Engineering (WCE'09), London-UK.
- Grant from **IIT Madras**-Alumni to present a paper at World academy of science and engineering technology-2009, **Paris**.
- AICTE scholarship during PhD at IIT Madras.
- GATE scholarship during M.Tech at NIT Warangal.

- **Research grant** from Automotive Research Association of India (ARAI), Pune.
- **AICTE Grant** for participation of Workshops on "Further Education Leadership Development Prog.(*FELDP*)" organized by AICTE-UKERI, **India** and **UK Govt.**

# **Research/Teaching Interests:**

- Thermal Engineering, Thermodynamics, Internal Combustion Engines and Pollution, In-cylinder Flow studies, Image processing, Alternate Fuels, Renewable energies, Automobile Engineering, Fluid Mechanics, Power Plant Engineering etc.
- **PhD thesis:** entitled with "Studies on In-Cylinder Tumble Flows in an Unfired Internal Combustion Engine Using Particle Image Velocimetry".
- **M.Tech thesis:** entitled with "Assessment of Torsional Vibration Characteristics of I.C Engines and Treaties to minimize them".
- **UG thesis**: entitled with "Design and Fabrication of Flywheel of I.C Engine".

# **Professional Activities/memberships:**

- Life member-The International Association of engineers [IAENG-102604]
- Life member-The Institute of Engineers, [IE (India)].
- Life member-The Indian Society for Technical Education (ISTE).
- Life member-The Int. Scientific Academy of Engg. and Technology (ISAET)
- Life member-The Int. Association of Computer Science and Inf.Tech. (IACSIT).
- Life member Green ThinkerZs society [GT2014RM076]
- Silver membership-Int. Association of Research and Developed Org. (IARDO).
- Reviewer-The American Society of Mech. Engineers (ASME) and few more
- Editorial Board Member-I2OR, IJRECE & TRJ.
- Chairman and Advisory Board Member for conferences and technical events.
- CMI member- Chartered Management Institute, UK [P04557172]
- Life member-Int. Society for Development and Sustainability [ISDS- M008025]
- **Nodal Officer**-for Spoken Tutorial, IIT-Bombay.
- Program Chair-for Springer Int. Conference Soft Computing in Data Analytics (SCDA-2018) organized by Sri Sivani College of Engineering, Srikakulam on 10<sup>th</sup> & 11<sup>th</sup> March, 2018.

- Editor for Springer Proceedings: International Conference on Soft Computing in Data Analytics (SCDA-2018), *Book Series:* Advances in Intelligent Systems and Computing.
- Scientific Committee member-Eminent Association of Researchers in Civil & Environmental Engg (EARCEE) under Eminent Association of Pioneers (EAP)
- Chair for the Session-"Intelligent System and Control" of Springer International Conference, Soft Computing in Data Analytics (SCDA-2018) organized by Sri Sivani College of Engineering, Srikakulam on 10<sup>th</sup> & 11<sup>th</sup> March, 2018.

#### Other accomplishments:

- Best paper award nomination: 1 among 8 nominated from 874 papers received for World congress on Engineering (WCE-2009) which is single platform for 16 International conferences held at Imperial campus, London.
- Outstanding Researcher award from association of Green ThinkerZs, NIITTR-Chandigarh, I2OR and IIT Bombay.
- **Best Indian Educationist** award with *Gold Medal* received from honorable former Governor of Sikkim Sri.Randhir Singh at a National Seminar on "Economic Growth & National Unity" conferred by FFI (a social and voluntary forum), held at India International Centre, New Delhi on 28<sup>th</sup> August 2016.
- Academic Leadership award received from I2OR, NITTTR Chandigarh and IIT Bombay, MHRD, Govt of India in association with Green ThinkerZ Society, India.
- **Bharat Excellence award** with *Gold Medal* received from honorable former Governor of Sikkim Sri.Randhir Singh at a National Seminar on "Economic Growth & National Unity" conferred by FFI (a social and voluntary forum), held at India International Centre, New Delhi on 28<sup>th</sup> August 2016.
- Selected for Indira Gandhi Gold medal award by Global Economic Progress and Research Association.
- Appreciation Certificate/Letter from IIT Bombay, for outstanding contribution of implementation/using ICT based teaching and learning methodology for students; played a part in fastest growing NMEICT Project-National Mission on Education through ICT, funded by MHRD, Govt. of India.
- Selected for **National Award of Excellence** award by Glacier journal research foundation and Global Management Council.
- Selected for Indian Global Golden and Sparkling Indian awards by the Indian institute of global brotherhood.
- Selected for AICTE-UKIERI Further Education Leadership Development Programme (FELDP), one among 50 shortlisted out of 1058 nominations received at India level.
- CMI (Chartered Management Institute) International Certification and Award in Management and Leadership through AICTE-UKIERI.

- Best Researcher Award, from International Organization of Scientific Research and Development (IOSRD), Chennai.
- Certificate of Participation and Award from **Election Commission of India** in formation of Human chain Ashoka Chakra as **World Record**.
- Award of Excellence received from International Association of Research and Developed Organization (IARDO) in association with Gurukul Institute of Engineering & Technology, Kota, India at International Award Conference on Multidisciplinary Research and Latest Innovation held at The International Centre Goa (India) on 28<sup>th</sup> October 2018.
- **CSI** Institutional Award
- Familiarity with NBA and NAAC accreditation Procedures and works
- JNTUK Ratified Principal/Head of Institution.
- JNTUK Recognized Research Supervisor
- JNTUK One PhD Research candidate Awarded.
- Experience of facing committees/teams: JNTUK FFC, AP Govt. Task Forces, AFRC, APHERMC, ISO, AICTE, NBA, NAAC etc.
- **MoUs**: made at Institutional level with IIT Bombay, NIT Warangal, NITTTR Calcutta, TCS, APSSDC, CMs SEC, CEMS etc.

#### Social Activities done (massive):

- One week Programme-CTAW
- Voter awareness programme-HAC-World record
- ROAD-survey and safety-AP Govt.
- Blood donation camps-Gold medal from Governor
- Eye and Dent- awareness programs
- Donating funds and cloths-poor-needy
- Eternal Programmes-Ethics-Moral
- Mass plantation programme
- Swatch-Bharat programme
- Working in association with RIMS/Red/Cross/other societies.

#### Best practices carried:

- NIT Warangal, IIT Bombay certification courses for Students & Staff.
- NIT Warangal, IIT Bombay MOUs
- NPTL Videos-establishment of MRC
- ECAP-student and parent update
- Effective Counseling System
- Special **SE**P Program for students etc.

### Institution Achievements & Recognitions:

- Accredited by NAAC
- **Permanently** Affiliated to JNTUK
- Recognized by UGC under section 2(f)&2(B)
- ISO 9001:2015 certification
- Member of JKC of A.P. State Gov. with Star Status
- 'A' Grade by AP Knowledge Mission-Consistent
- JNTUK, Kakinada examination Nodal Center Member of ISTE, CSI, IETE, IEI

### LIST OF PUBLICATIONS:

#### I. INTERNATIONAL JOURNALS

- Murali Krishna. B, DICI Engine with Diesel and CNSL Biodiesel Fuel as Biodegradable Substitute: Alternative and Renewable Fuel, International Journal of Social Ecology and Sustainable Development (IJSESD)13(1), 2022, Vol. 13, Issue. 1, Article: 20, Pages: 11, ISSN: 1947.8402, EISSN: 1947.8410, EISB N13: 9781683181989, DOI:10.4018, IJSESD.287120, SCOPUS, INSPEC.
- Anitha Santhoshi. M, Murali Krishna. B and Swami Naidu. G, Electric Discharge Machining of AA2024 with specific wt% of Red mud Hybrid Composites, International Journal of Materials Today Proceedings 39,PP.1390-1395, June 2020, DOI: 10.1016/J.MATPR.2020.04.866,ISSN/EISSN:1369-7021/1873-4103, WoS, SCI Expanded, SCOPUS, INSPEC.
- Bala Bhaskara Rao. J, B. Murali Krishna and K.Narendra, Influence of Double Elliptical Leaf Angle with Same Orientation and Direction to Evaluate Thermal Performance in Double Pipe Heat Exchanger, *Springer International Journal of Lecture Notes In Mechanical Engineering*, doi.org/10.1007/978-981-15-2696-145, pg.457-465, Mar.2020, EISSN: 2195-4364, ISSN: 2195-4356, SCOPUS.
- Murali Krishna. B, Experimental Investigations on CI Engine with Hydrogen Peroxide as an Alternative, Global Journal of Researchers in Engineering, Vol.20, Issue1, version1, Jan-Feb.2020, Online ISSN: 2249-4596 & Print ISSN: 0975-5861,pg. 37-41, J-Gate, Cite Factor, InfoBase Index, OAJ Indexing, Open Access, Google Scholar, EBSCO.
- 5. Murali Krishna. B and J. M. Mallikarjuna, Cyclic Variations of In-Cylinder Flows Analysis Trough image processing using Visualization Technique, International Journal of Computational Intelligence and Informatics, Vol.9, Issue1, June 2019, ISSN: 2231-0258, pg.23-27, Indexed ROAD.
- 6. Anitha Santhoshi. M, Murali Krishna. B and Swami Naidu. G, Experimental Investigations on Wear Behavior of AA2024-Flyash-Nanostructured Red mud Hybrid Composites Synthesized by Stir casting, International Journal of Surface Engineering and Interdisciplinary Materials Science', Vol.6, Issue 2, July-Dec.

2018,DOI:10.4018/IJSEIMS.2018070102,pg23.35,ISSN: 21667225/EISSN: 216 6-7233, **SCOPUS**, **INSPEC**.

- 7. Murali Krishna. B and J. M. Mallikarjuna, Tumble Flow Studies using Flat, Flat with bowl, Inclined and Inclined with bowl Pistons for Suitability of Stratified Internal Combustion Engine, Academia Journal of Scientific Research 6(8): 312-320, August 2018, DOI:10.15413/AJSR.2018.0141,ISSN-2315-7712, pg.312-320, Cross Mark, DOAJ, open J-GATE, SLUB, CABI, Cross Ref, Google Scholar, EBSCO.
- Chitti Babu. V, Murali Krishna. B, Govinda Rao. P and Santa Rao. K, Design of Accurate Steering Gear Mechanism, *International Journal of Mechanics and Mechanical Engineering*, Vol. 22, No. 1 (2018) pg.93-103, ISSN:1428-1511, EISSN:2354-0192, SCIMAGO (SJR), Google Scholar, SCOPUS, EBSCO
- 9. Murali Krishna. B and J. M. Mallikarjuna, Cold Flow Study at Combustion Space for Engine Low Emissions using Different Pistons, International Journal of 'The research journal (TRJ)'-A unit of Int. Institute of Organised Research-I2OR, Vol.3, Issue 6, Nov-Dec 2017, ISSN:2454-7301,EISSN:2454-4930, JIFACTOR, SJIF, DRJI, GIF, Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar.
- 10. Murali Krishna. B, Renewable CSO-Diesel blend: a partial substitute and Smoke reduction fuel for DI Diesel engines, International Journal of 'The research journal (TRJ)'-A unit of International Institute of Organised Research-I2OR, Vol.2, Issue6, Nov-Dec 2016, ISSN:2454-7301, EISSN:2454-4930, pg.36-39, JIFACTOR, SJIF, DRJI, GIF, Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar.
- 11. Murali Krishna. B and J. M. Mallikarjuna, Cold Flow Study at 330 CAD for Control of Emission with Different Intake Manifolds of a Single Cylinder Internal Combustion Engine, International Journal of 'The research journal (TRJ)'-A unit of International Institute of Organised Research- I2OR, Vol.2, Issue6, Nov-Dec 2016, ISSN:2454-7301, EISSN:2454-4930, pg.23-26, JIFACTOR, SJIF, DRJI, GIF, Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar.
- 12. Murali Krishna. B, DI Diesel engine fuelled with transesterfied CSO and water emulsion-an experimental study, International Journal of Technological Advances and Scientific Research, DOI: 10.14260/jtasr/2016/31EISSN-2454-1788, ISSN- 2395-5600, Vol. 2, Issue 04, Oct-Dec. 2016, Pg.172-176, Info base Indexed, J-Gate, Copernicus, Google Scholar.
- 13. Murali Krishna. B, Influence of Shroud Intake Valve on Performance and Exhaust Emissions of a Diesel Engine-An Experimental Approach, International Journal of 'The research journal (TRJ)'-A unit of International Institute of Organised Research- I2OR, Vol.2, Issue2, Mar-Apr 2016, ISSN: 2454-7301, EISSN:2454-4930,pg.106-109,JIFACTOR, SJIF, DRJI, GIF, Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar.
- **14. Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigations on Incylinder Flows of Engine with Intake Shrouded Valve, *International Journal of*

Engineering Technology, Management and Applied Sci., Vol.3, Special Issue, Nov.2015, ISSN 2349-4476, pg.85-91, Indexed in DIIF.

- **15. Murali Krishna. B and J. M. Mallikarjuna**, Non-intrusive PIV Experiments and In-Cylinder Flow Structure Analysis of a Unfired Engine Equipped with Inclined Pistons, *International Journal of Engineering Technology Science and Research, EISSN-2394-3386*, **UGC Approved, Indexed in DIIF**.
- **16.Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigation on Tumble Motion During Cold Flow of Engine Equipped with Bowl Piston, *International Journal of Advanced Research in Science and Engg, Vol.No.4, Issue 11, Nov.2015, ISSN 2319-8354, pg.79-88,* **UGC Approved** S.No:47721.
- 17. Murali Krishna. B and J. M. Mallikarjuna, Effect of Manifold Inclination on an Unfired Engine Equipped with Flat Piston Using Non-Intrusive Technique -Experimental Flow Structure Analysis, Journal of Basic and Applied Engineering Research, EISSN: 2350-0255, Vol.No.2, Issue 21, October-Dec.2015, pg.1804-1809, Cosmos IF:4.24,
- 18. Murali Krishna. B and J. M. Mallikarjuna, PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown Pistons, International Journal of Engineering Technology Management and Applied Sciences, ISSN-2349-4476, Vol.3, Special Issue, September 2015, Pg.130-139, Indexed in DIIF.
- **19. Murali Krishna. B., P.Ramesh Babu** and **S.Sanyasi Rao,** Experimental analysis on Performance Improvement of Diesel Engine Utilizing Water Gas, *International Journal and Magazine of Engineering, Technology, Management and Research, ISSN:2348-4845, July 2015, Vol.2, Issue7, Pg.92-97,IJIF:3.55, IARC IF:1.02*
- 20. Murali Krishna. B and J. M. Mallikarjuna, Effect of Manifold Inclination on Motored Engine Equipped with Flat Piston Using PIV Technique - Experimental Flow Structure Analysis, *Journal of Aeronautical and Automotive Engineering*, ISSN: 2393-8579, EISSN:2393-8587, Vol.1, Sep. 2014, Cosmos IF:3.69.
- 21. Murali Krishna. B and J. M. Mallikarjuna, In-cylinder Tumble Flow Analysis in a Motored Engine using PIV Technique, International Journal of green energy, energy and environment (IJGEEE)-ISSN 0976-2515, Vol.-1,No.2,July 2010, pp.239-37.
- 22. Murali Krishna. B and J. M. Mallikarjuna, Effect of Engine Speed on Incylinder Tumble Flows in a Motored Internal Combustion Engine-An Experimental Investigation Using Particle Image Velocimetry, International Journal of Applied Fluid Mechanics, Vol.4, No.1, July 2010, ISSN:1735-3572, EISSN:1735-3645, WoS, EBSCO, Thomson Reuters, SCOPUS, SCI Expanded.
- 23. Murali Krishna. B and J. M. Mallikarjuna, Characterization of Flow through the Intake Valve of a Single Cylinder Engine Using Particle Image Velocimetry, *International Journal of Applied Fluid Mechanics*, Vol.3, No.2, July 2010, pp.23-32, ISSN:1735-3572 EISSN:1735-3645, *WoS*, Cite Score, InfoBase IBI, EBSCO, ISI, Thomson Reuters, SCI Expanded, SCOPUS.

- 24. Murali Krishna. B and J. M. Mallikarjuna, Comparative Study of In-Cylinder Tumble Flows in an Internal Combustion Engine Using Different Piston Shapes -An Insight Using Particle Image Velocimetry, International Journal of Experiments in Fluids, Published by Springer Nature, DOI 10.1007/S00348-009-0783-6, ISSN/EISSN:0723-4864 / 1432-1114, May 2010, Vol. 48, Issue 5, pp 863-874, WoS, SCOPUS, SCI Expanded.
- 25. Murali Krishna, B and J. M. Mallikarjuna, Effect of Manifold Orientation on Non-Reacting In-Cylinder Tumble Flows in an IC Engine with Pent-roof Piston-An Investigation using PIV, SAE International Journal of Materials and Manufacturing, 3(1):597607, V1195EJ, https://doi.org/10.4271/2010010956, SAE Paper:2010-01-0956, SP-2295, April 2010, ISSN:1946-3979, EISSN:1946-3987, WoS, Emerging SCI, SCOPUS.
- 26. Murali Krishna. B., A. Bijucherian and J. M. Mallikarjuna, Effect of Intake Manifold Inclination on Intake Valve Flow Characteristics of a Single Cylinder Engine using PIV, Int. Journal of Engg. and Applied Sciences 6:2 2010, pg.119-125, ISSN:2394-3661,Open J Gate, Directory of Research Journal Indexing, NISCIR, Cross Ref, DOI, Indexed by DOAJ, Google Scholar, SCOPUS.
- 27. Murali Krishna. B and J. M. Mallikarjuna, Properties and Performance of Cotton Seed Oil-Diesel Blends as a Fuel, Journal of Renewable and Sustainable Energy, American Institute of Physics (AIP) publications, Vol.1, 023106, 2009, https://doi.org/10.1063/1.3117342, ISSN /EISSN: 1941-7012, WoS, Thomson Reuters, SCOPUS, SCI Expanded.
- 28. Murali Krishna, B and J. M. Mallikarjuna, Effect of Intake Manifold Orientation on In-Cylinder Tumble Flow Structure in an Internal Combustion Engine-an Analysis using Particle Image Velocimetry, ISSN: 0148-7191, EISSN: 2688-3627, https://doi.org/10.4271/2009-28-0004, SAE Paper No. 2009-28-0004, Dec.13, 2009, published by ARAI.
- 29. Murali Krishna. B and J. M. Mallikarjuna, Effect of Cavity in a Pent-roof Piston on the Engine In-cylinder Tumble Flows-An Investigation by Particle Image Velocimetry, International Journal of Engineering Letters, Vol. 17, Issue 3, pp 195-199, 2009, ISSN:1816-093X, EISSN:1816-0948, WoS, Thomson Reuters, SCOPUS, Emerging SCI (WoS).
- 30. Murali Krishna. B and J. M. Mallikarjuna, Tumble flow analysis in an unfired engine using Particle Image Velocimetry, International Journal of Mechanical, IndustrialandAerospaceSciences, Vol:3,No:6,2009,pg.707.712,ISSN:2517995, W ASET.org/1999.8/8168, doi.org/10.5281/zenodo.1070387,Semantic Scholar, Zenedo, BASE, WorldCAT, Sherpa/RoMEO, International Science Index (ISI), Google Scholar.
- 31. Murali Krishna. B and J. M. Mallikarjuna, Renewable Bio-Diesel from CSO-a Fuel Option for Diesel Engines, *Proceedings of ASME International Solar Energy Conference*, Published 2007, Indexed: 2007-01-01,pg.485-497, https://doi.org/10.1115/ISEC2006-99051, ISBN:0-7918-4745-4, WoS.

#### **II. NATIONAL JOURNALS**

- Murali Krishna. B and T.Nikhil, Direct Injection Compression Ignition Engine with Diesel and CNSO-Biodiesel to meet Energy and Environment Demand, *Journal of Thermal Energy Systems EISSN*: 2582-5747 Vol.5, Issue-3 (Sep-Dec., 2020), Page 14-21, J-Gate, Figshare, Google Scholar, Cite,Crossref Factor, Zenodo, Scientific Indexing Services,Root Indexing.
- Murali Krishna.B and R.Jyothish Kumar, Experimental Investigation on CI Engine using Diesel-CNSL-Ethanol as a Renewable Alternate Fuel, *Journal of Automation and Automobile Engineering*, e-ISSN: 2582-3159 Volume-5, Issue-2 (May-August, 2020), Page 1-6, J-Gate, Figshare, Google Scholar, Cite,Crossref Factor, Zenodo, Scientific Indexing Services,Root Indexing.
- Murali Krishna. B and S.Yasodhar, CNSL Biodiesel-Diesel Blend and Water Emulsion as a Renewable Fuel for CI Engines, *Journal of Thermal Energy Systems*, e-ISSN: 2582-5747 Volume-5, Issue-2 (May-August, 2020), Page 11-17, J-Gate, Figshare, Google Scholar, Cite,Crossref Factor, Zenodo, Scientific Indexing Services,Root Indexing.
- **4. Murali Krishna. B** and **J. M. Mallikarjuna**, In-Cylinder Tumble Flow in a Motored I.C Engine (Flat Piston)- Experimental Investigation using Particle Image Velocimetry, Journal of Institution of Engineers, India, Vol. 90, ISSN: 0020-3408, Oct. 2009.

#### III. INTERNATIONAL CONFERENCES

- Bala Bhaskara Rao. J, B. Murali Krishna and K. Narendra, Evaluation of Thermal Analysis in Double Pipe Heat Exchanger with three Elliptical Shaped Leaf Strips at Different Inclinations with Same Orientation and Direction, SCOPUS Indexed Springer Proceedings of International Conference on "Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)" during 17-18 May2019, held at NIT, Rourkela.
- 2. Bala Bhaskara Rao. J, B. Murali Krishna and K. Narendra, Influence of Double Elliptical Leaf Angle with Same Orientation and Direction to Evaluate Thermal Performance in Double Pipe Heat Exchanger, SCOPUS Indexed Springer Proceedings of International Conference on "Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)" during 17-18 May2019, held at NIT, Rourkela.
- 3. Bala Bhaskara Rao. J, B. Murali Krishna and K. Narendra, Experimental and Numerical Analysis of Double Pipe Heat Exchanger with Different Leaf Angle Strips to Fluctuate Heat Transfer and Pressure Drop, SCOPUS Indexed Springer Proceedings of International Conference on "Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)" during 17-18 May2019, held at NIT, Rourkela.
- 4. Murali Krishna. B and J. M. Mallikarjuna, Analysis of Cyclic Variations of Incylinder flows in an IC Engine by Experimental Visualisation Technique, *Proceedings of* 3<sup>rd</sup> International Conference on "Digitization, Innovation and Disruption: Keys to Achieving Global Competitiveness (ICDID 2K18)" on

September 15, 2018 , *held at* GL Bajaj Institute of Management & Research (GLBIMR), Greater Noida.

- 5. Murali Krishna. B and J. M. Mallikarjuna, Cold Flow Study at Combustion Space for Engine Low Emissions using Different Pistons, Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD-2017 held at NITTTR Chandigarh, India on 6-7 Nov. 2017, Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh and International Institute of Organized Research (I2OR).
- 6. Murali Krishna. B, Renewable CSO-Diesel blend: A Partial Substitute And Smoke Reduction Fuel for DI Diesel engines, Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD 2016), held at NITTTR Chandigarh on 1-2 December 2016 Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh, Int. Institute of Organized Research (I2OR) and Green Clues.
- 7. Murali Krishna. B and J. M. Mallikarjuna, Cold Flow Study at 330 CAD for Control of Emission with Different Intake Manifolds of a Single Cylinder Internal Combustion Engine, Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD-2016), held at NITTTR Chandigarh, India on 1-2 December 2016 Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh, Int. Institute of Organized Research (I2OR) and Green Clues.
- 8. Murali Krishna. B and J. M. Mallikarjuna, Experimental Study on Tumble Flows of an Engine using Flat, Flat with bowl, Inclined and Inclined with bowl Pistons Using PIV, 2<sup>nd</sup> International Conference-American Society of Thermal and Fluids Engineers (ASTFE), April 2-5, 2017, Las Vegas, Nevada, USA.
- 9. Murali Krishna. B, Influence of Shroud Intake Valve on Performance and Exhaust Emissions of a Diesel Engine-An Experimental Approach, Proceedings of International Conference on Recent Trends and Developments in Environmental Sustainability (RTDES 2016), 20th May 2016, Organized by Environment Matters, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, India.
- 10. Murali Krishna. B and J. M. Mallikarjuna, Experimental Investigations on Incylinder Flows of Engine with Intake Shrouded Valve, Proceedings of International Conference on Latest Trends in Engineering Science and Management (LTESM-15), Proceedings of Pearson with ISBN 978-93-325-7023-8,22<sup>nd</sup> Novembe2015, Jawaharlal Nehru University, JNU Convention Center, New Delhi, India, pg.565-572.
- 11. Murali Krishna. B and J. M. Mallikarjuna, Experimental Investigation on Tumble Motion during Cold Flow of Engine Equipped with Bowl Piston, Proceedings of 2<sup>nd</sup> International Conference on Recent Innovations in Science, Engineering and Management, 22<sup>nd</sup> Novembe2015, Jawaharlal Nehru University, JNU Convention Center, New Delhi, India, (ICRISEM) ISBN: 978-81-931039-9-9.
- **12. Murali Krishna. B** and **J. M. Mallikarjuna**, PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown

Pistons, Proceedings of International Conference on Innovative Research in Engineering, Science and Management (ESM-15), Proceedings of **Tata Macgraw Hills**, ISBN(13):978-93-85880-71-1, ISBN(10):93-85880-71-3, Vol.1 September 20<sup>th</sup>, 2015 Jawaharlal Nehru University, JNU Convention Center, New Delhi, India, pg.232-241.

- **13. Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Manifold Inclination on an Unfired Engine Equipped with Flat Piston Using Non-Intrusive Technique -Experimental Flow Structure Analysis, *Proceedings of 10<sup>th</sup> International Conference on Advances in Mechanical, Material Science, Manufacturing, Automobile, Aerospace Engineering and Applied Physics (AMAEAP-2015),* 5<sup>th</sup> and 6<sup>th</sup> September, 2015, Jawaharlal Nehru University, ,New Delhi, India.
- 14. Murali Krishna. B and J. M. Mallikarjuna, Effect of Intake valve Shroud and its Position on In-cylinder Tumble Flows in an Unfired Internal Combustion Engine-an Experimental Investigation using Particle Image Velocimetry, *Proceedings of 8<sup>th</sup> ASPACC(Asia-Pacific Conference on Combustion-8TH-ASPACC-2010)*,10-13 Dec2010, Hyd., India, pp.536-543.
- 15. Murali Krishna. B and J. M. Mallikarjuna, Effect of Compression Ratio on In-Cylinder Tumble Flows in an Unfired Internal Combustion Engine - An Experimental Study Using Particle Image Velocimetry, *Proceedings of 11<sup>th</sup> Asian Symposium on Visualization (ASV)*, during 5<sup>th</sup> -9<sup>th</sup> June-2011, Niigata, Japan.
- 16. Murali Krishna. B and J. M. Mallikarjuna, Effect of Manifold Orientation on Non-Reacting In-Cylinder Tumble Flows in an IC Engine with Pentroof Piston-An Investigation using PIV, SAE World Cong. 2010, April 12<sup>th</sup> -15<sup>th</sup>, 2010, Detroit, USA.
- 17. Murali Krishna. B and J. M. Mallikarjuna, Cycle-by-Cycle Variation in an Internal Combustion Engine-An Analysis using Particle Image Velocimetry, *Proceedings of The 10<sup>th</sup> Asian Symposium On Visualization*, March 1<sup>st</sup> -5<sup>th</sup>, 2010, Chennai, India.
- 18. Murali Krishna. B and J. M. Mallikarjuna, Tumble Flows in Gasoline Direct Injection Engine-A Study Using Particle Image Velocimetry, Proceedings of International Conference on Applications and Design in Mechanical Engineering (ICADME 2009), Oct 11<sup>th</sup>-13<sup>rd</sup>, 2009, Penang, Malaysia.
- 19. Murali Krishna. B and J. M. Mallikarjuna, Effect of Cavity in a Pentroof Piston on the Engine In-cylinder Tumble Flows-An Investigation by Particle Image Velocimetry, Proceedings of World Congress on Engg, July 1<sup>st</sup> -3<sup>rd</sup>, 2009, London, UK
- 20. Murali Krishna. B and J. M. Mallikarjuna, Tumble flow analysis in an unfired engine using Particle Image Velocimetry, *Proceedings of World Academy of Science, Engg and Technology*, Vol. 54, ISSN 2070-3724, June 24 <sup>th</sup> -26 <sup>th</sup>, 2009, Paris, France,
- 21. Murali Krishna. B., A. Bijucherian and J. M. Mallikarjuna, Effect of manifold inclination on Intake Valve Flow Characteristics of a single cylinder engine using Particle Image Velocimetry, *Proceedings of World Academy of Science, Engg and Technology* (PWASET), Vol. 34, ISSN 2070-3740, Oct 2008, Italy.

- 22. Murali Krishna. B and J. M. Mallikarjuna, Effect of Engine Speed on Intake Valve Flow Characteristics of a Diesel Engine- An Analysis Using Particle Image Velocimetry, Proceedings of First International Conference on Emerging Trends in Engineering and Technology (ICETET2008), ISBN:978-0-7695-3267-7/08 © 2008 IEEE, PP:1071-1076, July 16<sup>th</sup>-18<sup>th</sup>, 2008, Nagpur.
- **23. Murali Krishna. B** and **J. M. Mallikarjuna**, Flow Through Intake Valve of a Direct Injection Diesel Engine-A Preliminary Study Using Particle Image Velocimetry, *Proceedings of International Conference on Mechanical Engineering* (ICME2008), Johor Bahru, Malaysia, May 21<sup>st</sup>-23<sup>rd</sup>, 2008.
- 24. Murali Krishna. B and J. M. Mallikarjuna, Optical Diagnosis of Flow through the Intake Valve in a Direct Injection Diesel Engine, *Proceedings of 15<sup>th</sup> ISME International Conference on New Horizons of Mechanical Engineering (ISME-2008)*, March 18<sup>th</sup> -20<sup>th</sup>, 2008, Bhopal, India.
- **25. Murali Krishna. B** and **J. M. Mallikarjuna**, Intake Valve Flow Analysis in a Direct Injection Diesel Engine Using Particle Image Velocimetry, *Proceedings of 2<sup>nd</sup> International Conference on Recent Advances in Experimental Fluid Mechanics* (RAEFM-2008), March 3<sup>rd</sup>-6<sup>th</sup>, 2008, KLC, Vijayawada, India.
- 26. Murali Krishna. B and J. M. Mallikarjuna, The use of CSO in direct injection diesel engine as an alternative fuel, *Proceedings of Int. Conf. on Biofuels Vision (ICBFV2006),* Engineering College, Bikaner (Rajasthan), India. 13<sup>th</sup> 15<sup>th</sup>October 2006
- 27. Murali Krishna. B and J. M. Mallikarjuna, Renewable Bio-diesel from CSO-A fuel option for Diesel Engines, *Proceedings of ASME International Solar Energy Conference*, 8<sup>th</sup> -13<sup>th</sup> July 2006, Denver, ISBN:0-7918-4745-4, Paper No: ISEC 2006-99051.
- **28. Murali Krishna. B,** Performance evaluation of single cylinder diesel engine using Bio-diesel (from CSO) as an alternative fuel, *Proceedings of 14th ISME International conference on Mechanical Engineering in Knowledge Age,* Delhi college of Engineering, Delhi 12<sup>th</sup> -14<sup>th</sup> December 2005.
- **29. Murali Krishna. B,** Bio-diesel from CSO-An option for reducing smoke levels in Diesel Engine, *Proceedings of International Conference on Environmental Management (ICEM-2005),* JNTU, Hyderabad, 28<sup>th</sup>- 30<sup>th</sup> October 2005.

#### **IV. NATIONAL CONFERENCES**

- Murali Krishna. B and J. M. Mallikarjuna, Visualization Technique for Tumble Flow Studies of Stratified Engine with Proposed Pistons, Proceedings of Virtual National Conference on Advances in Engineering, Management and Sciences (NCAEMS-2020), [ISBN 978-81-945588-5-9], Organized by Department of Mechanical Engg,Santhiram Engineering College, Nandyal, A.P on 13<sup>th</sup> June 2020.
- Murali Krishna. B and J. M. Mallikarjuna, Cashew Nut Shell Liquid and Diesel Blends as Alternative Fuel for Diesel run Engines–An Experimental Study, 4<sup>th</sup> National Convention on Hydrogen Energy and Advanced Materials (NCHEAM-2015), November 28-29, 2015 organised by MA NIT

Bhopal, India in Association with University of Kerala and Hydrogen Energy and Advanced Materials Scientist & Scholar.

- **3. Murali Krishna. B** and **J. M. Mallikarjuna**, Development of Environmental Friendly Engines through Analysis of Tumble Flow, Tumble Ratio and Turbulent Kinetic Energy of Engine-An Experimental Investigation, 4<sup>th</sup> National Convention on Hydrogen Energy and Advanced Materials (NCHEAM-2015), November 28-29, 2015 organised by MA NIT Bhopal, India in Association with University of Kerala and Hydrogen Energy and Advanced Materials Scientist & Scholar.
- Murali Krishna. B and J. M. Mallikarjuna, Effect of Intake Manifold Orientation on In-Cylinder Tumble Flow Structure in an Internal Combustion Engine – An Analysis Using Particle Image Velocimetry, *Proceedings of SAEINDIA Mobility Conf.*, Dec 2009, Chennai, India, *SAE Technical Paper* 2009-28-0004, 2009, doi:10.4271/2009-28-0004.
- Murali Krishna. B and J. M. Mallikarjuna, Experimental In-Cylinder Flow Structure Analysis of Engine with Pentroof-Offset-Bowl Piston: Effect of Intake Manifold Orientation, 21<sup>st</sup> National Conference on IC Engines and Combustion, Dec 2009, Davanagere, India.
- 6. Murali Krishna. B and J. M. Mallikarjuna, Effect on In-Cylinder Tumble Flows with Intake Manifold Orientations-An Analysis with PIV, XVI National Conference on IC Engines and Combustion (NCICE2009), Dec 2009, Davanagere, India.
- **7. Murali Krishna. B** and **J. M. Mallikarjuna**, Engine In-Cylinder Tumble Flows-A Study Using Particle Image Velocimetry, *National Conference on New Advances in Thermal Design, Material and Manufacturing Engineering* (NATDMME–09) March 5-7, 2009, Malnad College of Engg, Hassan, India.
- Murali Krishna. B and J. M. Mallikarjuna, Effect of rubber damper on reduction of torsional vibrations of six cylinder diesel engine, National Conference on state of art of technologies in mech. engg., (NCSAME-06), JNTU, Hyderabad, 5<sup>th</sup>-6<sup>th</sup> May 2006.
- Murali Krishna. B and J. M. Mallikarjuna, Determination of properties of prospective Biodiesel fuel for diesel engines, *National Conference on State* of Art of Technologies in Mechanical Engineering (NCSAME-2006), May 5<sup>th</sup>-6<sup>th</sup> 2006, JNTU College of Engineering, Hyderabad, AP.
- **10. Murali Krishna. B,** CATCON-An immediate solution to reduce exhaust emissions of I.C Engines, *Proceedings of the National conference on Advances in Mechanical Engg. (AIME-2006),* Jamia Milla Islamia, New Delhi, Jan 20<sup>th</sup>-21<sup>st</sup> 2006.
- Murali Krishna. B, Effect of Nozzle hole shape on the performance of single cylinder Direct Injection Diesel Engine, *Proceedings of the National Conference on Computer Applications in Mechanical Engineering (CAME-2005),* JNTU College of Engineering, Ananthapur, 21<sup>st</sup> December 2005.
- **12. Murali Krishna. B,** HFC-Power for future automobiles, selected for *National* conference on emerging technologies and Applications (ETA-2005),

Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1<sup>st</sup>-2<sup>nd</sup> October 2005.

- 13. Murali Krishna. B, Review on never end low emission alternative fuels for Internal Combustion Engines, selected for National conference on emerging technologies and Applications (ETA-2005), Computer Science Dept. of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1<sup>st</sup>-2<sup>nd</sup> October 2005.
- 14. Murali Krishna. B, Production of renewable hydrogen fuel from water using NCES for a clean future, selected for *National conference on emerging technologies and Applications (ETA-2005),* Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1<sup>st</sup>-2<sup>nd</sup> October 2005.
- **15. Murali Krishna. B,** Energy conservation in boiler application through efficient utilization of steam, selected for *National conference on emerging technologies and Applications (ETA-2005),* Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1<sup>st</sup>-2<sup>nd</sup> October 2005.
- 16. Murali Krishna. B, An analytical approach to solve torsional vibration problem of multi cylinder I.C engines, *Proceedings of the National Conference on Computational Methods in Mechanical Engineering* (COMPUTIME-2005) at Osmania University, Hyderabad, 16 <sup>th</sup> -17 <sup>th</sup> September 2005.
- **17. Murali Krishna. B,** Role of 'SIT' in performance of single cylinder Direct Injection Diesel Engine, *Proceedings of the National Conference on Advances in Mechanical Engineering AIM-2005*, Vasavi college of engineering, Hyderabad 13 th-14 th May 2005.
- Murali Krishna. B, Effect of injection timing on diesel engine performance, selected for National level technical paper presentation competition-2005, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharastra), 8<sup>th</sup>-9<sup>th</sup> January 2005.
- 19. Murali Krishna. B, A review on electronic sensors and control systems-for new era automobile engines, selected for *National level technical paper presentation competition-2005*, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharastra), 8<sup>th</sup>-9<sup>th</sup> January 2005.
- 20. Murali Krishna. B, Establishment and Validation of mathematical model to assess and treat torsional vibrations of I.C engines, selected for National level technical paper presentation competition-2005, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharastra), 8<sup>th</sup>-9<sup>th</sup> January 2005.
- 21. Murali Krishna. B, Development of mathematical model A key technique to assess and treat torsional vibrations of I.C engines", Proceedings of the National Seminar on Role of NDE in Modern Maintenance Management (NDE-2005), IACR Engineering College, Rayagada; ISTE Orissa Section, 12<sup>th</sup>-13<sup>th</sup> March 2005.

#### Article published (International): 6

- 1. Titled with "Cottoning of new kind of fuel", *published in Inside Science News Reports* from American Institute of Physics (AIP) on 29.05.2009.
- **2.** Titled with "Tumble flow analysis in an unfired engine using Particle Image Velocimetry", published in **EBSCO** Host Connection, WASET-June 2009, Issue30, pg.430.
- **3.** Titled with "Characterization of Flow through the Intake Valve of a Single Cylinder Engine using Particle Image Velocimetry, published in **EBSCO** Host Connection, JAFM-July 2010, Vol.3, Issue 2, pg.23.
- Titled with "Effect of Cavity in a Pentroof Piston on the Engine In-cylinder Tumble Flows - An Investigation by Particle Image Velocimetry, published in EBSCO Host Connection, EL-September 2009, Vol.17, Issue 3, pg.195.
- Titled with "Effect of Engine Speed on In-Cylinder Tumble Flows in a Motored Internal Combustion Engine-An Experimental Investigation Using Particle Image Velocimetry, published in EBSCO Host Connection, JAFM-January 2011, Vol.4, Issue1, pg.1.
- Titled with "Effect of Intake Manifold Inclination on Intake Valve Flow Characteristics of a Single Cylinder Engine using Particle Image Velocimetry, published in EBSCO Host Connection, WASET-October2008, Vol.46, pg.853

### Books Published /Chapters Contributed:

- PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown Pistons, *Tata McGraw Hills*, ISBN(13):978-93-85880-71-1, ISBN(10):93-85880-71-3,Vol.1 Sep. 2015, pg.232-241.
- Experimental Investigations on In-cylinder Flows of Engine with Intake Shrouded Valve, *Pearson* with ISBN 978-93-325-7023-8, Nov.2015, pg.565-572.
- Soft Computing in Data Analytics: Proceedings of International Conference on SCDA 2018 (Advances in Intelligent Systems and Computing Book 758) 1st ed. 2019 Edition, Kindle Edition, Springer with ISBN-13: 978-9811305139, ISBN-10: 9811305137.

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