

CIRRICULUM VITAE

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Educational Qualifications : B.E(Mechanical, CBIT(OU), Hyd), M.Tech(R&A/C,
: JNTUACE Anantapur), Ph.D(IST, JNTU, Hyderabad)

Teaching Experience : 15 years

Areas of interest Thermal Engg, IC Engines, Heat Transfer,
Refrigeration &airconditioning, CFD, Modelling&
simulation

No. of Ph.D completed: 01

Mr. Kommanasrinivas (H.T. No. 1003PH1538), Performance and emission characteristics of methyl esters of Palm kernel oil and Eucalyptus oil blens in VCR CI engine, viva-voce date: 07-06-2018, at Mechanical Engineering Department, JNTUH, Kukatpally, Hyderabad.

No. of on-going Ph.D:01

M.AshokChakravarthy(H.T. No. 19PH0315), Experimental Investigation on factors affecting predictability of vapour compression refrigeration system and their optimization,registered in 2019, JNTUA Ananthapuramu.

Administrative Works:

- Deputy Warden for Shilpa Hostel
- Placement Officer
- Coordinator for Mechanical Engineers students association both UG and PG level
- Coordinator for ISTE Students chapter (Mechanical Engg)
- Coordinator for Entreprenuership development programme cell
- Deputy Controller of Examinations
- Presently Member for IQAC

International Journals-57

1. S.NagaSarada, G.Sudha Rani, M.V.S.Murali Krishna and **K.KalyaniRadha**, “Investigations on performance and emissions of low heat rejection diesel engine with carbureted methanol and crude Jatropha oil as alternate fuels”, *Japan Society of Automotive Engineers*, JSAE No-2007-65-64, Oct 2007
2. S.NagaSarada, **K.KalyaniRadha** and A.V.S Raju, “Experimental investigations in a circular tube to enhance turbulent heat transfer using mesh inserts”, *ARPN Journal of Engineering and Applied Sciences*, ISSN 1819-6608, Vol.4 No.5, pp 53-60, July 2009
3. S.NagaSarada, **K.KalyaniRadha** and A.V.S Raju, “Experimental Investigations of Turbulent Heat Transfer in a Horizontal Tube with Longitudinal Inserts”, *European Journal of Mechanical and Environmental Engineering*, EJMEE ISSN 0035-3612, Volume 2009-3, pp 22-27, 2009
4. S.NagaSarada, A.V.S Raju and **K.KalyaniRadha**, “Experimental and Numerical Analysis of Enhancement of Heat Transfer in a Horizontal Circular Tube Using Mesh Inserts In Turbulent Region”, *European Journal of Mechanical and Environmental Engineering*, EJMEE ISSN 0035-3612, Volume 2010-2, pp 3-18, 2010
5. S.NagaSarada, A.V.S Raju and **K.KalyaniRadha**, “Experimental and Numerical Analysis of Turbulent Flow Heat Transfer Enhancement in a Horizontal Circular Tube Using Mesh Inserts”, *Journal of Energy and Power Engineering*, David Publishing House, USA, ISSN 1934-8975, Volume 4, No. 7, Serial No. 32, pp. 32 – 4, July 2010
6. S.NagaSarada, **K.KalyaniRadha** and A.V.S Raju, “Enhancement of Heat Transfer in a Horizontal Tube with Wire coil inserts- A CFD analysis”, *International Journal of Applied Engineering Research*, ISSN 0973-4562, Volume 3, Number 9, pp.1149-1159, 2008
7. **K.KalyaniRadha**, B. SudheerPrem Kumar, E.L. Nagesh and K.Rajagopal, “Feasibility study of Alternate Fuels in a DI-CI Engine”, *Research Journal of Engineering and Technology*, ISSN 0974-2824, Volume 1, Issue 1, pp. 16-2, April-June 2008
8. **K.KalyaniRadha**, S. Naga Sarada, B. SudheerPrem Kumar, E.L. Nagesh and K.Rajagopal, “Investigations on the Performance of Thumba oil and its Blends as an Alternative Fuel in a Single Cylinder Compression Ignition Engine”, *International Journal- Technology Spectrum*, ISSN: 0974-6854, Vol 3 (No. 2), pp: 1-6, July 2009
9. B. SudheerPrem Kumar, VVSS Murthy, **K.KalyaniRadha**, K. Vijaya Kumar Reddy, Ramjee, Ch. Naga Prasad and K.Rajagopal “Performance evaluation of a low heat Rejection CI engine using vegetable oils”, *International Journal of Multidisciplinary Research and Advances in Engineering (IJMRAE)*, Issue 1, Vol. 1, pp. 53-70, Nov 2009
10. **K.KalyaniRadha**, S. Naga Sarada, E.L. Nagesh and K.Rajagopal, “Development of an Energy Efficient Heat Pump Working on R407C as an Alternate Refrigerant”, *International Journal of Mechanical Engineering, Serials Publications*, Vol.3, Issue 1, pp. 1-5, Jan-June 2010

11. S.NagaSarada, **K.KalyaniRadha**, T. K.K Reddy, M. V. S. Murali Krishna and P. Chowdary “Performance Evaluation of Low Heat Rejection Diesel Engine with Waste Fried Vegetable Oil”, *International Journal of Mechanical Engineering and Material Sciences, Serials Publications*, Vol.3, Issue 1 pp. 1-8, Jan-June 2010
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13. S.NagaSarada, A.V.S Raju, **K.KalyaniRadha** and L. Shyam Sunder, “Enhancement of heat transfer using varying width twisted tape inserts”, *International Journal of Engineering, Science and Technology*, Vol. 2, No. 6, pp. 107-118, Nov 2010
14. S.NagaSarada, M. Shailaja, A.V.S Raju, and **K.KalyaniRadha**, “Optimization of injection pressure for a compression ignition engine with cotton seed oil as an alternate fuel”, *International Journal of Engineering, Science and Technology*, Vol. 2, No. 6, pp. 142-149, Nov 2010
15. S.NagaSarada, A.V.S Raju, and **K.KalyaniRadha**, “Simulation of Laminar Flow Heat Transfer in Oil Coolers”, *Elixir Mech. Engg. Online journal*, ISSN 2229-712X, Volume 37, July 2011, pp. 3721-3725
16. **K. KalyaniRadha**, S. Naga Sarada, K. Rajagopal and E.L. Nagesh, “Performance and emission characteristics of a CI engine operated on vegetable oils as alternative fuels”, *International Journal of Automotive and Mechanical Engineering (IJAME)* ISSN: 2229-8648 (Print); ISSN: 2180-1606 (Online); Volume 4, pp. 414-427, July-December 2011
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19. **K.KalyaniRadha** and G. Praveen Kumar, “Cold storage for preserving medicines by using thermoelectric refrigeration”, *Elixir Mech. Engg.*, ISSN: 2229-712X, Vol. 63 (2013)18442-18446
20. **K.KalyaniRadha** and D. Bhaskar, “Experimental investigation on the performance and emission characteristics of diesel engine by using bluff bodies”, *International Research Journal on Engineering*, Nov 2013, Vol.1(1), pp 019-026.
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25. P. Amarnath and **K.KalyaniRadha**, “Fabrication of thermo electric module for cooling and heating applications using solar energy”, *International Journal of Science and Research (IJSR)*,ISSN(online): 2319-7064, Volume 4, Issue7, July 2015, Paper Id-Sub157072, pp.2442-2446.
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 36. S.PadmaPriya, **Dr.K.KalyaniRadha**, EXPERIMENTAL INVESTIGATIONS ON THE PERFORMANCE OF CI ENGINE USING DIESEL AND BIODIESEL BLENDS OF PINE OIL WITH MESHED BLUFF BODIES , December 2017, Volume 4, Issue 12 JETIR (ISSN-2349-5162).
 37. B.MALLESWARI, **Dr.K. KALYANI RADHA**, PERFORMANCE CHARACTERISTICS OF CI ENGINES USING DIESEL AND BLENDS OF ALMOND OIL BIODIESEL USING SPIRAL SHAPED BLUFF BODIES, December 2017, Volume 4, Issue 12 JETIR (ISSN-2349-5162)
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 44. CHANDANAPRIYA VEERAMALLU, **Dr.K.KALYANI RADHA**, MODELLING, ANALYSIS AND FABRICATION OF AN ADJUSTABLE BACK REST FOR A MOTOR VEHICLE RIDER, 2018 **Journal of Emerging Technologies and Innovative Research** September 2018, Volume 5, Issue 9 pp-307-311(ISSN-2349-5162).
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 48. Pola Mahesh, **K. KALYANI RADHA**, Fabrication of automatic mini hydraulic jack, **International Journal of Research and Analytical Reviews-** International Journal of Research and Analytical Reviews, Vol-5, issue -4, **E-ISSN 2348-1269**, pp-513-519, Oct 2018
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 50. SINGARI KARTHIK , **Dr. K KALYANI RADHA**, MODELLING AND FABRICATION OF ELECTRIC BIKE USING SOLAR ENERGY STAND ALONE PV SYSTEM USING ARTIFICIAL INTELLIGENCE FUZZY LOGIC CONTROL, *International Journal of Scientific & Engineering Research* Volume 9, Issue 10, October-2018, ISSN 2229-5518, pp-1814-1820
 51. Shaik Mohammed NaseeruddinSha, **K.KalyaniRadha**, Quality Inspection of Missiles Components Using Non-Destructive testing methods, *Journal of Emerging Technologies and Innovative Research* , June 2019, Volume 6, Issue 6 ISSN-2349-5162, pp-829-834
 52. P. NavyaSpandana, **Dr. K. KalyaniRadha**, GENERATION OF ELECTRIC POWER FROM PLANTS, *Journal of Emerging Technologies and Innovative Research* , June 2019, Volume 6, Issue 6 ISSN-2349-5162, pp-341-345
 53. T.SAI SINDHUSHA, **Dr. K. KalyaniRadha**, DEVELOPMENT OF A MULTIPURPOSE SOLAR EMERGENCY KIT FOR HIGH ALTITUDE TREKKING, *Journal of Emerging Technologies and Innovative Research* , June 2019, Volume 6, Issue 6 ISSN-2349-5162, pp-165-170
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 55. GarimellaSaiVenuManoj, **Dr. K. KalyaniRadha**, Modelling and CFD Simulation of Turbocharger's Centrifugal compressor in a marine diesel engine, *Journal of Emerging Technologies and Innovative Research* , June 2019, Volume 6, Issue 6 ISSN-2349-5162, pp-213-219

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National Journals-01

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8. **K. KalyaniRadha**, S. Naga Sarada, A ArunaKumari, E.L Nagesh and K. Rajagopal, "Alternative fuels for a Single Cylinder Direct injection diesel engine", *ICETET-2008, First International conference on Emerging Trends in Engineering and Technology*, GH Raison College of Engineering, Nagpur, July 2008, ICETET.2008.261, pp 1083-1088
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 10. ArunaKumari, Dr. S. Nagasarada, **Dr. K. KalyaniRadha**, M. Srikan, Dr. K. Vijaya Kumar Reddy, "Review on Alternative Crops (Feedstock's) for Biodiesel Production", RITS ICAEM-2012: RITS International Conference On Advancements In Engineering And Technology, Hyderabad, India, 28 & 29 February 2012
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 12. K.Srinivas, N. Ramakrishna, B. BaluNaik and **K.KalyaniRadha**, "Performance characteristics of VCR engine with diesel additive and Eucalyptus oil", *International Symposium on Aspects of Mechanical Engineering and Technology for Industry (AMETI 2014)*, pp: 71-76
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 14. T SaiSindhusha, **Dr. K. KalyaniRadha**, Solar Emergency Kit, International conference on advances in renowned renewable energy technologies ICARRET-2019 during 23-24, Oct 2019 at VR Siddhartha Engineering college, Vijayawada

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 8. K Kalyan Kumar and **K KalyaniRadha**, “ Effect of inner groove evaporator coils on the performance of a window air conditioner”, Proceedings of National Conference on Trends in Mechanical Engineering, 23rd September 2015, pp: 57-63, JNTUA College of Engineering, Anantapuramu, A.P
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 12. JirraMadhusudhanaRao and **K KalyaniRadha**, “ Optimization of Thickness for Solid Rocket motor casing”, Proceedings of National Conference on Trends in Mechanical Engineering, 23rd September 2015, pp: 621-628, JNTUA College of Engineering, Anantapuramu, A.P
 13. Tej Deep and **K.KalyaniRadha**, “Robust railway crack detection scheme using arm IRTDRS”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp-48-51 , JNTUA College of Engineering, Anantapuramu, A.P
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 15. G. Somasekhar and **K.KalyaniRadha**, “Performance characteristics of CI engine using diesel and blends of mustard oil with bluff bodies”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 231-233, JNTUA College of Engineering, Anantapuramu, A.P
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- Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp-264-270 , JNTUA College of Engineering, Anantapuramu, A.P
17. P. Durga Prasad and **K.KalyaniRadha**, “Mechatronic helmet for minimization of exposure to carbonmonoxide”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 434-438 , JNTUA College of Engineering, Anantapuramu, A.P
 18. B.L Mahesh Babu and **K.KalyaniRadha**, “experimental ananlysis of by-passing refrigerant in a dessert cooler from vapour compression refrigeration system”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 562-564, JNTUA College of Engineering, Anantapuramu, A.P
 19. A Gopinath Reddy and **K.KalyaniRadha**, “Effect of bundy tube coil on the performance of chest freezer”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 565-567, JNTUA College of Engineering, Anantapuramu, A.P
 20. D. Siva Bhaskar and **K.KalyaniRadha**, “Effect of by-passing refrigerant using bundy tube condenser in VCR system”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 568-570, JNTUA College of Engineering, Anantapuramu, A.P
 21. J. Yashwanth and **K.KalyaniRadha**, “Prototype of PV system based on dual axis solar tracking and MPPT”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 635-639, JNTUA College of Engineering, Anantapuramu, A.P
 22. R. Malla Reddy and **K.KalyaniRadha**, “Experimental analysis of an active solar thermoelectric radiant cooling system”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 700-705, JNTUA College of Engineering, Anantapuramu, A.P
 23. N. Manikantachari ,S. Bhaskar and **K.KalyaniRadha**, “Thermal analysis of solar parabolic collector using goal programming”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp- 711-713, JNTUA College of Engineering, Anantapuramu, A.P
 24. D. NarayanaNaik and **K.KalyaniRadha**, “Fabrication of solar power grass cutting machine”, Proceedings of National Conference on Emerging trends in Mechanical Engineering, 27th August 2016, pp-158-161, JNTUA College of Engineering, Anantapuramu, A.P
 25. **K.KalayaniRadha** has presented/ submitted a paper titled “Advanced GPS based solar tracking” for the 2nd National Conference on “Development, Advances & Trends in Engineering Science” (NCDATES-2K16) held during 8th & 9th January 2016
 26. **K.KalayaniRadha** has presented / submitted a paper titled “ Performance and Emission Characteristics of 4S DI Diesel Engine fuelled with calophylluminophyllum Biodiesel Blends” for the 2nd National Conference on “Development, Advances & Trends in Engineering Science” (NCDATES-2K16) held during 8th & 9th January 2016
 27. **K.KalayaniRadha** has presented a technical paper entitled “ Performance Analysis of Hydrocarbon with forced Air Cooling Condenser in Vapour Compression Refrigeration System” in the International Conference on Emerging Trends in Engineering and Technology-2017 held during 27th& 28th October, 2017.
 28. **K.KalayaniRadha** has presented a technical paper entitled “ Development of In-suit Turning Lathe Machine for Rebuilding of Worn Out Converter Trunion Shaft” in the International Conference on Emerging Trends in Engineering and Technology-2017 held during 27th& 28th October, 2017.
 29. **K.KalayaniRadha** has presented a technical paper entitled “ Enhancement of Heat Transfer in Domestic Refrigerator with inlet Nozzle at Evaporator using Nano Fluid

(AlO₃) as Refrigerant” ” in the International Conference on Emerging Trends in Engineering and Technology-2017 held during 27th& 28th October, 2017.

Workshops attended-11

1. *Power Tools in Modern Workshop Practice*, JNTU, Hyderabad, 27th Sept 2005
2. *Fluid Dynamics and Boundary Layer Applications* (under TEQIP), JNTU, Hyderabad, 30th Sept 2005
3. *CAD/CAM & CAE Applications in Mechanical Engineering*, JNTU, Hyderabad, 10th-11th August 2006
4. *Research Methodology & Application of Mathematical Techniques in Mechanical Engineering* (under TEQIP), JNTU, Hyderabad, 11th -13th Dec 2006
5. *Advances in Renewable Energy Technologies and Applications* (under TEQIP), JNTU, Hyderabad, 24th-25th March, 2009
6. *One day National Workshop on Robot Technology* (sponsored by UGC), JNTUACE, Anantapur, 29th, September, 2011
7. *Two day workshop on “Outcome based Education Approach in Engineering Curriculum”* (sponsored by UGC), JNTUACEA, Ananthapuramu, A.P, 26-27 August, 2014.
8. *Three day workshop on “Industrial Practices of Computational Fluid Dynamics”*(sponsored by AICTE, New Delhi), Dept. of Mechanical Engineering, JNTUACE, Anantapuramu, A.P., during 21st to 23rd August 2014.
9. Participated in the one day Didactical Programme on “CRAFTING POWERFUL QUESTIONS” organized by JNTUA college of Engineering Ananthapuramu-515002, Andhra Pradesh (India) on 16th July 2016.
10. Participated in three day workshop on “EXPERIMENTAL APPROACHES & INSTRUMENTAL ASPECTS IN ANALYTICAL CHEMISTRY” organized by Chemical Engineering Department, JNTUA College of Engineering (Autonomous), Ananthapuramu under TEQIP-III from 6th to 8th February 2019.
11. Participated in one week online workshop on Additive Manufacturing during 2-7th November, 2020, NIT, Tiruchirapalli.

Workshops Conducted: 03

1. A 2-day workshop on CFD Basics, Industrial applications and Internal Combustion Modeling during 19th –20th September, 2011 at JNTUA College of Engineering, Anantapur sponsored by AP State Council for Higher Education, Hyderabad
2. Organized a 3 day Entrepreneurship Awareness Camp (EAC) sponsored by national Science and Technology, Entrepreneurship Development Board (NSTEDB), Govt. Of India, New Delhi in collaboration with Centre for Entrepreneurship Development (CED), Hyderabad for the outgoing UG final year students during 06 to 08 March 2017.
3. Organized a one day workshop on “Awareness on Entrepreneurship and Emerging Technologies” in collaboration with IB Hubs, Hyderabad on 21-09-2017.

FDP Conducted:01

- Organized one week FDP on Innovative Teaching learning techniques in higher education during 03-08, Sept, 2019, MED, JNTUACEA

Orientation/Refresher courses attended :03

1. Attended a Four weeks “28th Orientation course” during 21-05-2012 to 16-06-2012 at UGC –Academic staff college, JNTUH, Kukatpally, Hyderabad
2. Attended a Three weeks Refresher Course on “ Soft Skills for Professional Excellence” at UGC-HRDC, JNTUH, Kukatpally, Hyderabad, Telangana from 30-11-2015 to 19-12-2015
3. Attended 3 weeks UGC Sponsored summer school on Strategies for research Oriented Teaching during 06-06-2016 to 25-06-2016 at UGC-HRDC, JNTU HYDERABAD Telagana State.

Faculty Development Programs attended: 04

1. Two weeks FDP on Entrepreneurship during, 06-07-2015 to 18-07-2015, Conducted by JNTUHCE, Hyderabad and JNTUACE Anantapur.
2. National Training Programme On Creativity and Innovation Management (DST) in Research, during 12-03-2018 to 16-03-2018, at Engineering Staff College of India, Hyderabad
3. Participated in TEQIP-III sponsored One-Week Faculty Development Programme on Reinforcing Professional Communication Skills for Teaching Faculty from 11th-15th June, 2018.
4. Participated in a two week Faculty Development Programme sponsored by TEQIP-III and IE(I) on “Solar and Wind Energy – Future Technologies” organized by Mechanical Engineering Department, JNTUA College of Engineering Ananthapuramu, (A.P) during 12th to 24th Nov.2018.
5. Participated in one week FDP on Recent Advances in Materials and Manufacturing RAMM-2020(Part 2) (7th September to 12th September) -GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (Autonomous), Visakhapatnam.(online mode)

National Conference organized -02

1. Organized a national conference on “Trends in Mechanical Engineering’15 (TIME-2015) on 23rd September, 2015 at Department of Mechanical Engineering, JNTUACEA
2. Organized a national conference on “Emerging Trends in Mechanical Engineering’16 (eTIME-2016) on 27th August, 2016 at Department of Mechanical Engineering, JNTUACEA

Students Symposium’s Organized -03

1. Organized a National Level Technical Students Symposium “Dynamechs - 2016” on 22nd March, 2016 at Department of Mechanical Engineering, JNTUACEA

2. Organized a National Level Technical Students Symposium “Dynamechs - 2018” on 28th March, 2018 at Department of Mechanical Engineering, JNTUACEA
3. Organized a National Level Technical Students Symposium “Dynamechs - 2019” on 27th March, 2019 at Department of Mechanical Engineering, JNTUACEA

Books authored:

1. Introduction to Computers, C and Data Structures – Published on 25-09-2011 with ISBN: 978-93-5051-478-8; PSM 367; Rs. 450/- by Himalaya Publications House

Member of Professional Bodies: 05

- *Life member of The Combustion Institute (India) LMC-1025*
- *Life Member of the Indian Society of Technical Education (India) LM 61723*
- *Life Member of the Indian Society for Heat and Mass Transfer (India) ISHMT No. 593*
- *Life Member of the international Association of Engineers (Hong Kong) IEANG .112273*
- *Member of Institution of Engineers (Indian Section) MIE(M-1532000)*

Reviewer for Peer Reviewed Journals: 03

- *African Journal of Pure and Applied Chemistry (AJPAC), USA*
- *ABCM Journal of the Brazilian Society of Mechanical Sciences and Engineering, Brazil*
- *International Journal of Engineering, Science and Technology, India*

Reviewer for Text books

- Reviewed Engineering Mechanics Text Book- Timosenko Young and Rao, Tata McGraw Hill, Publications, India
- Reviewed Engineering Strength of Materials, 1/e Text Book- Rattan, Tata McGraw Hill, Publications, India