# **Curriculum Vitae**

## DR. KARUNESH KUMAR SHUKLA

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Motilal Nehru National Institute of Technology Allahabad

Allahabad-211004, U.P., India



• Composite Plates and Shells

• Smart Structures

• Retrofitting & Strengthening of RCC Structures

• Computational Mechanics

• Stability & Dynamics of Structures

• Multi-scale Composites

# **Educational Qualifications:**

Ph.D.	Indian Institute of Technology Delhi
M.E. (Structures)	M.N.R.E.C.Allahabad (Allahabd University)
B.E.(Civil)	M.M.M.E.C. Gorakhpur (Gorakhpur University)

**Ph.D. Thesis:** "Some studies on nonlinear static and dynamic analysis of laminated composite plates under thermomechanical loading".

M.Eng. Thesis: "Pre-cast Hollow Roofing Units"



# **EmploymentDetails:**

Designation	Employer	Period
Professor (Applied Mechanics Deptt.)	M.N.N.I.T. Allahabad	13-8-2010- continuing
Professor (Civil Engg. Deptt.)	M.N.N.I.T. Allahabad	19-02-09to 12-8-2010
Professor (Applied Mechanics Deptt.)	M.N.N.I.T. Allahabad	15-6-05 to 18-02-09
Assistant Professor (Applied Mechanics Deptt.)	M.N.R. E.C. Allahabad	20-02-2000 to 14-06-05
Lecturer(Selection Grade) (Applied Mechanics Deptt.)	M.N.R. E.C. Allahabad	8-10-99 to 19-02-2000
Senior Lecturer (Applied Mechanics Deptt.)	M.N.R. E.C. Allahabad	8-10-94 to 7-10-99
Lecturer (Applied Mechanics Deptt.)	M.N.R. E.C. Allahabad	7-10-88 to 7-10-94

## **Courses Lectured:**

- (a) U.G. Level: Engineering Mechanics, Strength of Materials, Advance Strength of Materials, Structural Analysis, Composite Materials, Optimization Techniques, Mechanical Vibration, Finite Element & Finite Difference Methods
- (b) P.G. Level: Theory of Stability, Theory of Plates & Shells, Applied Computational Methods, Theory of Elasticity, Advanced Structural Analysis, Dynamics of Structures, Finite Element Method, Mechanics of Composite Materials, Experimental Stress Analysis

# Details of new courses developed/ existing courses revised

Sl.	Undergraduate	Postgraduate	
No.			
1.	Engineering Mechanics, Strength of Materials,	Theory of Elasticity, Dynamics of	
	Structural Analysis I & II, Composite Materials,	Structures, Mechanics of	
	Developed course curriculum for B.Tech (Civil) for	Composite Materials, Finite	
	AICTE New Delhi	Element Method, Theory of Plates	
		and Shells, Applied Computational	
		Method, Continuum Mechanics,	
		Experimental Solid Mechanics	

#### Details of experimental or computational projects added to teaching laboratory

Sl. No.	Undergraduate	Postgraduate	
1.	Structural Analysis Laboratory	Shear Centre, Folded Plates,	
		ANSYS, Material Studio, Testing	
		of Composites, Micro UTM, SEM	

#### **Research and Consultancy**

- **1.** Research Scholar, Applied Mechanics Department, I.I.T. Delhi, India, July 1997 Sept. 2000 (on QIP scholarship from Govt. of India)
- **2.** Visiting Research Fellow, Mechanical and Computer Aided Engineering Department, Feng Chia University, Taichung, Taiwan, Nov. 2002- March 2003, June 2004.
- 3. Industrial Projects/ Consultancy
- Structural design of India gate at Sonauli, Gorakhpur (India- Nepal Border), UPPWD Gorakhpur, 1994, 0.40 lacs.
- Structural Design Evaluation of the Agricultural Engineering College, Etawaha, UP, UPRNN, 1994-95, 1.60 lacs
- Structural Design of Curved Beams of Girls Polytechnic Amethi & Sultanpur, UPPWD, 1996, 0.40
- Structural Design Evaluation of Overhead Water tank and Buildings at MNREC, Allahabad, 1995. 2.0 lacs
- Structural Design of Foundation of Wind Tunnel at MNREC Allahabad.
- Design of Minor Bridge at Pratapgarh, UPRNN, 2003, 0.60 lacs.
- Design evaluation of Hospital Building at MLN Medical Allahabd, 2003. 0.50 lacs
- Stability Checking of retaining walls, Oriental structures Ltd. 2007, 0.25 lacs
- Design of Culverts, 2007, 0.25 lacs.
- Design of lifting bolts, 2007, 0.10 lacs
- Survey work of ADA Allahabad, 2007, 4.5 lacs
- Design of Extension of bridge culvert, Oriental structures, 2008, 0.25 lacs
- Design of sump well, Up Jal Nigam, 2008, 0.26 lacs.
- Design checking of number water tanks, 2008, 0.25 lacs
- Design of 4 storied building, ADA Allahabad, 2008. 0.50 lacs
- Design of 4 storied building, ADA Allahabad, 2010. 0.50 lacs
- A number of testing consultancies related to steel testing and others.(2004-8) 2.5 lacs.
- Design Checking of different shops of Indian Railway sponsored by L&T Ltd (2012)-2.5 lacs
- Evaluation of Flood Protection Scheme in Uttarakhand (2011-12)- 2.0 lacs
- Proof Checking of Design and Drawings of ROB at Rly Km 1409/8-9 on Kanpur(2012)- Rs. 0.68 lacs
- Supervision of Civil construction works at the MNNIT Allahabad for the period 1994-95, 2003-2009
- Third Party Inspection of Civil Works carried out by UP Roadways for the Mahakumbh 2013
- Proof Checking of Design and Drawings of 4 ROBs (2014)- Rs. 2.50 lacs
- DST-FIST project for Applied Mechanics Department, MNNIT Allahabad, Rs. 130 lacs (Prepared & presented before the committee on behalf of the deptt.)
- Proof Checking of Design and Drawings of 4 ROB at ch. 94+050 (2015)- Rs. 0.50 lacs

## 4. Sponsored Research Projects

(i) **Title**: Design Simulation, Modeling and Mechanical Properties Characterization of Carbon Nano Tube (CNT) Composites (completed)

Funding Agency: Advanced Systems Laboratory (ASL) a Defense Research and Development

Organization (DRDO), Ministry of Defence, Govt. of India.

Fund allotment: Rs. 127 lacs(Co-PI: Dr. S.B.Mishra, MED)

(ii) Title: "Characterization, Modelling and Analysis of Nano flake and Nano-sheet Graphite Nanocomposites"

Funding Agency: Joint Research funding under Indo-Taiwan S&T Programme

**Fund allotment**: funding of 2 visits from each side.

**Period:** March 2009-2012

#### **Awards and Recognitions**

- National scholarship 1979-1986.
- GATE Fellowship 1986-1988.
- QIP Fellowship 1997-2000.
- Cited in Marcus World's Who's and Who in Science & Engineering 2003, 2005, 2006, 2007.
- Included in the reference book by the International Biographical Centre, Cambridge, England as leading Scientists of the World 2005.
- **Visiting Research Fellow** Nov.02 March 03 and June 2004, Feng Chia University, Taichung, Taiwan.
- Developed BE/B.Tech (Civil Engg.) Curriculum, sponsored by AICTE New Delhi in 1998.
- Served as Reviewer to the following Int. Journals (i) J. Engineering Mechanics, ASCE, (ii) J. Sound & Vibration, (iii) Finite Element Analysis & Design, (iv) Int. J. Structural stability & Dynamics, (v) Int. J. Geotechnical & Geological Engg.,(v) Communication in Nonlinear Science & Numerical Simulations, (vi) Composite Structures, (vii) Mechanics of Advanced Materials & Structures (viii) Int J. of Mechanical Sciences (ix) Acta Mechanica Solida Sinica (x) AIAA (x) Shock and Vibration (xi) Composites: Part-B (xii) Int. J. Mechanical Sciences (xiii) Structural Engineering & Mechanics.
- Member International Editorial Board of Int. Journal "The Open Aerospace Engg. Journal" published by Bentham Science & Engg. Publication, USA.
- Member, Editorial Board of Journal of Modeling and Simulation in Design and Manufacturing (ISSN: 0976-7827)
- Reviewed Text Book on "Structural Analysis"
- Secretary & President of QIP Research Scholar Forum, IIT Delhi, 1998-1999.
- President, Teacher's Association, MNNIT Allahabad, 2007-9
- Chaired Technical Sessions in International Conference, ICTACEM2010, ICSSD-2102
- Member, International Advisory Board, 4<sup>th</sup> International Conference on Structural Stability and Dynamics held at NIT Jaipur, Jan. 2012.
- Member, National Advisory Board 3<sup>rd</sup> Asian Conference on Functional Materials and Structures, ACFMS-2012.

#### **Administrative Experience:**

#### (a) Institute Level:

- Dean (Academic): Sept01, 2013- Aug. 31, 2015
- Head, Applied Mechanics Department: August 17, 2011- August 16, 2013
- Head, Mathematics Department: March 01, 2011- August 31, 2011
- Dy. Dean (Administration): 2001-2004
- Faculty in-charge Construction: July1994- Aug. 95, Sept.2003- Feb. 2010
- Assistant Warden- Tandon Hostel & P.G. Hostel
- Warden in-Charge: Delegacy & Malviya Hostel
- Officer-in-Charge: Various Games
- Chief Proctor: Nov 2011-Nov 2014
- Chairman, Institute Health Care Committee: Dec01, 2012- Dec.15, 2015
- Chairman, Institute Security Advisory Committee: May 2012-till date
- Chairman, Technical Committee, Centre for Interdisciplinary Research
- Chairman, Technical Committee, Centre for Medical Diagnostics & Research

## (b) Department Level

- Officer-in-charge: Computational lab, Engineering Mechanics lab, Structural Analysis lab, Strength of Materials lab, Time table
- Convener-Departmental Postgraduate Committee
- Convener-Departmental Under Graduate Committee

#### (c) Others

- Dy. Coordinator-UPMCAT: 2001, 2002, 2003
- Dy. Chairman Central Counseling Board- AIEEE-2003, 2004
- Convener-Technical Committee: CCB-AIEEE-2003
- Member-CCB Head Quarter, CCB-2008
- Member-Technical Committee, CCB-2009, 2014

#### **Short Term/Refresher Courses Organized / Attended:**

## **Organized:**

- Convener, Self Sponsored Short Term course on "Finite Element Analysis (Theory and Practice)" MNNIT Allahabad, January 29 February 03, 2007, Number of participants 45.
- Coordinator, Self Sponsored short term course on "Nanocomposites" MNNIT Allahabad, July 11 –15, 2013, Number of participants 30.

#### **Attended:**

- Short Term course on "Computer Methods in Optimization", Oct. 12-23, 1992, IISc Bangalore.
- Short Term Course on "Pump and Valve Selection for Optimum Performance", Dec. 27-Jan. 8, 1994, MNREC Allahabad.
- Short Term Course on "Recent Trends in Engineering Materials" Dec. 26- Jan 6, 1995, MNREC Allahabad.
- Specialist Course on "Detailing of Reinforced Concrete Structures" Oct. 12-17, 1995, University of Roorkee.
- Summer School on "Reliability Based Innovative Product Design" June 1-12, 1998, IIT Delhi.
- Summer School on "Instrumentation & Data Analysis" July 6-17, 1998, IIT Delhi.

- National workshop on "Institute Works- Construction and Management" Sept. 23-24, 2002, IIT Kanpur.
- Short Term Programme on "Curriculum Processes" Feb. 15-17, 2005organized jointly by MNNIT Allahabad & NITTTR, Chandigarh.
- Short Term Course on "Virtual Instrumentation" Jan. 17-21, 2005organized jointly by MNNIT Allahabad & NITTTR, Chandigarh.

# **Conferences/Seminars Organized/Participated: Organized**

Sl.	In the	Title	Duration	Organised at	Sponsors	Amount
No.	Capacity of					[`in lakhs]
1.	Organising	National	July 12-	MNNIT	Self Sponsored	No. of
	Chairman	Workshop on	14, 2012	Allahabad		Participants: 40
		Advanced	14, 2012	Ananabad		1 articipants. 40
		Functional				
		Materials and				
		Structures				
		(AFMS-12) in				
		collaboration with				
		University of				
		Missouri,				
		Columbia, USA				
2.	Programme	International	Dec. 22-	MNNIT	Sponsored by	No. of
	&Technical	Conference on	24 2014	O14 Allahabad	vomova a consisa	Participants:
	Chair	Multifunctional	24, 2014		various agencies	rarucipants.
		Materials,				more than 100
		Structures and				More than Rs. 13
		Applications				More man Ks. 15
		(ICMMSA-2014)				lacs
		in collaboration				
		with University of				
		Missouri,				
		Columbia, USA				

## **Participated**

- National Seminar on High Rise Structures, Institution of Engineers Allahabad, 1995.
- Int. Conf. on Theoretical, Applied, Computational & Experimental Mechanics, ICTACEM-98, IIT Kharagur, 1998.
- 11<sup>th</sup> ISME Conf. IIT Delhi, 1999.
- Geo-Environment-2005, MNNIT Allahabad
- Int. Conf. Computational & Expérimental Sciences, ICCES-5, IIT Chennai, 2005.
- Int. Conf. Computational Mechanics, ICCMS06, IIT Guwahati, 2006.
- Int. Conf. 15<sup>th</sup> USNCTAM, University of Colorado, Colorado, USA, June 25-30,2006.
- Int. Conf. on Theoretical, Applied, Computational & Experimental Mechanics, ICTACEM-07, IIT Kharagur, 2007
- 2<sup>nd</sup> Asian Conference on Functional Materials & Structures ACFMS 2010, Nanjing University of Aeronautics and Astronautics, Nanjing, China, Oct.22-25, 2010.

- Int. Conf. on Theoretical, Applied, Computational & Experimental Mechanics, ICTACEM-10, IIT Kharagur, 2010
- Int. Conf. on Aeronautical and Astronautical Engineering, ICAAE 2011, Paris, France, July 27-29, 2011.
- 8<sup>th</sup> South African Conference on Applied Mechanics, SACAM-12, University of Johannesburg, South Africa, Sept. 3-5, 2012.
- Third Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012), IIT Delhi, Dec 5-8, 2012.
- International Conference on Structural Stability and Dynamics (ICSSD-2012), MNIT Jaipur, India, 4-6 Jan. 2012.

## **Invited Talks:**

- "Nonlinear Analysis of Composite Laminated Plates under Thermomechanical Loading: An Analytical Approach" at Civil Engg. Deptt., Feng Chia University, Taichung Taiwan, 10-3-2003.
- "Dynamic Response of Composite Laminated Plates" at Mechanical Engg. Deptt., Feng Chia University, Taichung Taiwan, 17-3-2003.
- "Basics of Finite Element Method" Short term course at MNNIT Allahabad, 2007.
- "Variation Formulations" Short term course at MNNIT Allahabad, 2007.
- Inaugural talk on "Finite Element Method" a refresher course at HBTI Kanpur, 2007.
- "Basics of Elasticity" Short term course at MNNIT Allahabad, 2007.
- "Computational Mechanics" Short term course at MNNIT Allahabad, 2007.
- "Basics of Finite Element Analysis & its Application", Short term course at Oriental Institute of science & Technology, Bhopal, 2007.
- "Research Scenario at MNNIT Allahabad", TOKO University, Taiwan, 2007.
- "About MNNIT & Research Scenario at MNNIT" CUHK & HKU, Hongkng, 2007.
- "Smart Materials & Systems" at Advanced Material Processing and Research Institute Bhopal, 2008.
- "Civil Engineering Profession" at a Seminar organized by U.P.Professional Civil Engineering association at Lucknow, 2007.
- "Laboratory Teaching" Orientation Programme for New Faculty Members at MNNIT Allahabad-2004.
- "Multiscale Composites" at National Workshop on Advanced Functional Materials and Structures, MNNIT Allahabad, July 12-14, 2012.
- "Nonlinear Dynamic Analysis of Laminated Composite Skew Plates", Fourth Int. Conf. on Structural Stability and Dynamics (ICSSD-2012), Jaipur, India, 4-6 Jan. 2012.
- "Nonlinear Systems and Dynamics" at short term course on Advances in Nonlinear Dynamics organized by Deptt. of Physics, MNNIT Allahabad, June 10-14, 2013.

# Visits Abroad (Foreign Universities):

- University of Johannesburg, South Africa
- Nanjing University of Aeronautics & Astronautics, Nanjing, China
- Feng Chia University, Taichung, Taiwan
- TOKO University, Chai, Taiwan
- Hongkong University, Hongkong
- Chinese University Hongkong, Hongkong
- University of Collorado, Boulder, USA
- Columbia University, New York, USA
- City College of Engineering, City University, New York, USA

- Florida International University, Miami, USA
- The Parks College of Engineering and Aviation, St. Louis, USA
- University of Missouri, Columbia, USA

# Ph.D. Theses Supervised

#### (a) Completed: 9

- (i) B.P.Patel (2005), "Thermal Buckling and Postbuckling Characteristics of Composite Laminated Shells (Co-Supervisor: Prof. Y .Nath)
- (ii)Ramesh Pandey (2008), "Some Studies on Nonlinear Analysis of Laminated Composite Rectangular Plates" (Co-Supervsor: Prof. Anuj Jain)
- (iii) Dinesh Bhatia (2011), "Some Studies on Biomechanical Aspects of Human Leg" (Co-Supervisor: Dr. R.P.Tewari)
- (iv)R.K.Srivastava (2012), "Study of Rigid Pavements for Village Roads in Alluvial Regions" (Co-Supervisor: Prof. S.K.Duggal).
- (v) Jeeoot Singh (2012), "Some Studies on Linear and Nonlinear Analysis of Rectangular Plates using RBF based Meshfree Method" (Co-supervisor: Prof. T.Nath).
- (vi) Ashutosh Upadhyay (2013) "Nonlinear Static and Dynamic Analysis of Skew Plates".
- (vii) Syed Tabin Rushad (2013), "Some studies on the strengthening of the R.C.C. beams", (Cosupervisor: Prof. S.K.Duggal)
- (viii) T. Ramesh (2014), "Life Cycle Energy Analysis of Residential Buildings" (Co-Supervisor: Dr. Ravi Prakash)
- (ix) Ashok Jain (2014), "Some Studies on the Warehousing Structures using Prefabricated Ferrocement Folded Plates".

#### (b) Under Progress: 4

- (i). Kishore Guru, "Modeling and Simulation Studies on 2-phase/3-phase Nanocomposites", (Co-Supervisor: Dr. S.B.Mishra)
- (ii) Hemant K Singh "Life Cycle Energy Analysis of Commercial Buildings), (Co-Supervisor: Prof. Ravi Prakash)
- (iii) Tushar Sharma, "Nonlinear Analysis of Tapered Beam", (Co-Supervisor: Dr. V.Murari).
- (iv) Rajendra Bahadur, "Analysis of Spherical Shells on Rectangular Planform", (Co-Supervisor: Dr. Ashutosh Upadhyay)

#### **List of Publications**

# (a) Book Chapters:

• "Buckling and Post-buckling of Composite Plates Under Thermal Loadings", **Shukla K.K.** and Pandey R., Encyclopedia of Thermal Stresses, Editor- R. Hetnarski, DOI 10.1007/978-94-007-2739-7, © Springer Science+Business Media Dordrecht, 505-516, (2014).

#### (b)Text Book: 1

• "An Introduction to Strength of Materials" **K.K.Shukkla**, Anuj Jain,& Ramesh Pandey (Narosa Publications, 2014, ISBN: 978-81-8487-101-2)

#### (c)Book/Proceedings edited: 1

 "Proceeding of the International Conference on Multifunctional Materials, Structures and Applications", P.Chakrabarti, Sanjeev Khanna, K.K. Shukla, Naresh Kumar, A. Bhar (McGraw Hill Education (India) Pvt. Ltd. New Delhi, 2014, ISBN: 978-93-392-2019-8)

#### (d) List of Publications

#### I. International Journals: 57

#### (i) SCI: 45

- 1. "Study of Effect of Interface on the Elastic Modulus of CNT Nanocomposites", Guru, K., Sharma, T., **Shukla, K.K.**, and Mishra, S.B., *Journal of Nanomechanics and Micromechanics, ASCE* (DOI: 10.1061/(ASCE)NM.2153-5477.0000109.)
- 2. "Effect of temperature and functionalization on the interfacial properties of CNT reinforced nanocomposites", Guru, K., Mishra, S.B., and **Shukla, K.K.**, *Applied Surface Science*, 349, 59-65 (2015)
- 3. "Buckling of Laminated Composite and Sandwich Plates Using Radial Basis Function Collocations", Sandeep Singh, Jeeoot, Singh, **Shukla, K.K.,***International Journal of Structural Stability and Dynamics*, 15(1), 2015. DOI: 10.1142/S0219455415400027
- 4. "Post-buckling analysis of skew plates subjected to combined in-plane loadings" Upadhyay, A.K. and **Shukla**, **K.K**., *ActaMech*, 225 (10), 2959-2968, (2014)
- 5. "Meshless Analysis of Laminated Composite and Sandwich Plates Subjected to Various Types of Loads", Singh, Jeeoot, Singh, S., and Shukla, K.K., *Journal for Computational Methods in Engineering & Mechanics*, 15(2), 158-171, (2014)
- 6. "Post buckling behavior of Composite and Sandwich Skew Plates" Upadhyay, A.K. and **Shukla, K.K.,** *International Journal of Non-Linear Mechanics*, 55, 120-127 (2013).
- 7. "Nonlinear static and dynamic analysis of skew sandwich plates", Upadhyay, A.K. and **Shukla, K.K.,** *Composite Structures*, 105, 141-148 (2013)
- 8. "Geometrically Nonlinear Static and Dynamic Analysis of Functionally Graded Skew Plates" Upadhyay, A.K. and **Shukla, K.K.,** *Communications in Nonlinear Sciences and Numerical Simulation*, 18(8),2252-2279 (2013)
- 9. "Flexural response of Doubly Curved Laminated Composite Shells" by Sharma, A., Upadhyaya, A.K., **Shukla, K.K.**, J. SCIENCE CHINA Physics, Mechanics & Astronomy, 56 (4): 812-817 (2013).
- 10. "Non-linear Flexural and Dynamic Response of CNT Reinforced Laminated CompositePlates", Bhardwaj, G., Upadhyay, A.K., Pandey, R., and **Shukla, K.K.**, *Composites Part B*, 45, 89-100 (2013).
- 11. "Buckling of laminated composite plates subjected to mechanical and thermal loads using meshless collocations", Singh, Sandeep, Singh Jeeoot, and **Shukla, K.K.**, *Journal of Mechanical Science and Technology*, 27(2), 327-336 (2013).
- 12. "Nonlinear flexural analysis of functionally graded plates under different loadings using RBF based meshless method", Singh, Jeeoot and **Shukla**, **K.K.**, *Engineering Analysis with Boundary Elements*, Vol. 36, 1819-1827 (2012).
- 13. "Large Deformation Flexural Behavior of Laminated Composite Skew Plates: An Analytical Approach" Upadhyay, A.K. and **Shukla, K.K.,** *Composite Structures*, Vol. 94, 3722-3735 (2012)
- 14. "Life cycle approach in evaluating energy performance of residential buildings in IndianContext", Ramesh, T., Prakash, R., and **Shukla, K.K.,** Energy *and Buildings*, 54, 259-265 (2012).
- 15. "Nonlinear Dynamic Response of Elastically Supported Laminated Composite Plates", Pandey, R., Upadhyay, A.K., **Shukla, K.K.**, and Jain A., *Int. J. Mechanics of Advanced Materials and Structures*, Vol. 19 (6), 397-420, 2012.
- 16. "Nonlinear flexural analysis of laminated composite plates using RBF based meshless method", Singh, Jeeoot and **Shukla**, **K.K.**, *Composite Structures*, Vol. 94, 1714-1720 (2012).
- 17. "Life Cycle Energy Analysis of Residential Buildings with Different Envelopes and Climatesin Indian Context" by Ramesh, T., Prakash, R., and **Shukla, K.K.,** *J. AppliedEnergy*, Vol. 89(1), 193-202 (2012).
- 18. "Nonlinear dynamic response of laminated composite plates subjected to pulse loading" by A.K. Upadhyay, R. Pandey, and **K.K. Shukla**, Communications in Nonlinear Sc. Numerical Simulation, Vol. 16, 4530-4544 (2011).

- 19. Life cycle energy analysis of buildings: An overview by T. Ramesh, Ravi Prakash, K.K. Shukla, Energy and Buildings, 42(10), 1592-1600, (2010).
- 20. Nonlinear Flexural Response of Laminated Composite Plates under Hygro-Thermo-Mechanical Loading by Upadhyay, A.K, Pandey, R., and **Shukla, K.K.**, *Communications in Nonlinear Sc. Numerical Simulation*, 15(9), 2634-2650, (2010).
- 21. Hygrothermoelasticpostbuckling response of laminated composite plates by Pandey R., Upadhyay A.K. and **Shukla K.K.**, J. Aerospace Engg., ASCE, 23(1), 1-13, (2010).
- 22. Nonlinear free vibration analysis of composite plates with material uncertainties: A Monte Carlo simulation approach by Singh B.N., Bist A.K., Pandit M.K., **Shukla K.K.**, J. Sound & Vibration, 324(1-2) 2009 (2009).
- 23. Thermoelastic stability analysis of laminated composite plates: An analytical approach *by* Pandey R., **Shukla K.K.** and Jain A., *Communications in Nonlinear Sc. Numerical Simulation*, 14, 1679-1699 (2009).
- 24. Second order statistics of natural frequencies of smart laminated composite plates with random material properties by Singh B.N., Umrao A. and **Shukla K.K.**, Smart Structures and Systems: An Int. Journal, 4(1) (2008).
- 25. Postbuckling response of functionally graded rectangular plates subjected to thermo-mechanical loading *by***Shukla K.K.**, Ravi Kumar K.V., Pandey R. and Nath Y., *Int. J. Structural Stability and Dynamics*, 7(3), 519-541 (2007).
- 26. Thermoelastic Buckling Characteristics of Angle-Ply Laminated Elliptical Cylindrical Shells", Patel, B.P., Shukla, K.K., and Nath, Y., *Composite Structures*, 77(1), 120-124 (2007)
- 27. Postbuckling analysis of functionally graded rectangular plates by Wu T.L., **Shukla K.K.** and Huang J.H., *Composite Structures*, 81(1), 1-10 (2007).
- 28. Nonlinear thermo-elastic buckling characteristics of cross-ply laminated joined conical-cylindrical shells *by* Patel B.P., Nath Y. and **Shukla K.K.**, *Int. J. Solids and Structures*, 43, 4810-4829 (2006).
- 29. Nonlinear thermoelastic stability characteristics of cross-ply laminated oval cylindrical/conical shells by Patel B.P., **Shukla K.K.** and Nath Y., *Finite Elements in Analysis and Design*, 42, 1061-1070 (2006).
- 30. Free vibrations of laminated composite conical panels with random material properties *by*Tripathi V., Singh B.N. and **Shukla K.K.**, *Composite Structures*, 81(1), 96-104 (2007).
- 31. Thermal postbuckling analysis of laminated cross-ply truncated circular conical shells by Patel B.P., **Shukla K.K.** and Nath Y., *Composite Structures*, 71(1), 101-114 (2005).
- 32. Thermal postbuckling characteristics of laminated conical shells with temperature dependent properties, *by* Patel B.P., **Shukla K.K.** and Nath Y., *AIAA Journal*, 43(6), 1380-1388 (2005).
- 33. Thermo-elastic stability behaviour of laminated cross-ply elliptical shells by Patel B.P., **Shukla K.K.** and Nath Y., Structural Engineering and Mechanics, 19(6), 749-755 (2005).
- 34. Postbuckling of cross-ply laminated rectangular plates containing short random fibres by Huang J.H. and **Shukla K.K.**, *Composite Structures*, 68(3), 255-265 (2005).
- 35. Buckling of laminated composite rectangular plates by**Shukla K.K.**, Nath Y., Kreuzer E. and Sateesh K.V., J. Aerospace Engg., ASCE, 18(4), 215-223 (2005).
- 36. Buckling and transient behaviour of layered composite plates under thermomechanical loading *by***Shukla K.K.**, Nath Y. and Kreuzer E., *ZAMM*, 85(3), 163-175 (2005).
- 37. Thermal postbuckling of laminated composite plates with temperature dependent properties by**Shukla K.K.**, Huang J.H., Nath Y., J. Engineering Mechanics, ASCE, 130(7), 818-825 (2004).
- 38. Thermal buckling of laminated cross-ply oval cylindrical shells by Patel B.P., **Shukla K.K.**, Nath Y., *Composite Structures*, 65(2), 217-229 (2004).
- 39. Nonlinear dynamic analysis of composite laminted plates containing spatially oriented short fibres by **Shukla K.K.**, Chen J.M. and Huang J.H., *Int. Journal of Solids and Structures*, 41(2), 365-384 (2004).
- 40. Buckling of laminated composite rectangular plates under transient thermal loading by**Shukla K.K.** and Nath Y., *Journal of Applied Mechanics*, ASME, 69(5), 684-692 (2002).
- 41. Thermomechanical postbuckling of cross-ply laminated rectangular plates by**Shukla K.K.** and Nath Y., J. Engineering Mechanics, ASCE, 128(1), 93-101 (2002).
- 42. Analytical solution for buckling and postbuckling of angle-ply laminated composite plates under thermomechanical laoding by Shukla K.K. and Nath Y., International Journal of Nonlinear Mechanics, 36(7), 1097-1108 (2001).
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