Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

- 1. Name : Dr. P. A. Krishnan
- 2. Designation : Professor
- 3. Office Address: Department of Civil Engineering,

NIT, Trichy

- 4. Telephone (Direct) (Optional): 04312503158
 Telephone : Extn (Optional): Mobile (Optional): 8129769531
- 5. Email (Primary):pak@nitt.edu

Email (Secondary) :p_a_krishnan@yahoo.com

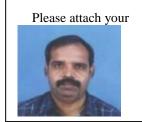
- 6. Field(s) of Specialization: Applied Mechanics
- 7. Employment Profile

Job Title Employer From То REC, Trichy Lecturer 1990 1997 University of Liverpool, UK 1997 SeniorResearch 1998 Assistant NIT, Trichy 1999 Assistant 2008 Professor NIT, Trichy Professor 2008 Till date

8. Academic Qualifications (From Highest Degree to High School):

University/Board	Qualification	Year	Specialisation
Kerala State	Х	1976	All Subjects
Educational Board			
Calicut University	Pre-Degree	1978	Physics, Chemistry
			and Maths
			Specialization
IIT, Delhi	B. Tech	1984	Civil Engineering
IIT, Madras	M. Tech	1986	Engineering
			Mechanics
IIT, Madras	Ph. D	1991	Applied Mechanics

9. Academic/Administrative Responsibilities within the University



Position	Faculty/Depart	tment/Ce ution	entre/Ins	From	То
M. Tech Structural Engineering	Department	of	Civil		
Coordinator	Engineering				
Chairman of different class	Department	of	Civil		
committees	Engineering				
Coordinator of M. Tech projects	Department	of	Civil		
	Engineering				
Member PG Admissions	Department	of	Civil		
Committee	Engineering				
Member, MS/Ph. D Admission	Department	of	Civil		
Committee	Engineering				
Involved in purchase of	Donostra art	of	Civil		
Involved in purchase of	Department	OI	CIVII		
equipment for Structural	Engineering				
Engineering Lb., Strength of Materials lab and Survey Lab.					
Waterials lab and Survey Lab.					
Staff Advisor, Civil Engineering	Department	of	Civil		
Association	Engineering				
TEQIP Books purchase	Department	of	Civil		
Committee	Engineering				
Arranged Class Seminars and	Department	of	Civil		
Field visits for students	Engineering				
Acted as member, Scrutinizing	Department	of	Civil		
Committee for Lecturer Selection	Engineering				
in Civil Engineering Department					
I year coordinator of Engineering	Department	of	Civil		
Mechanics.	Engineering				
Resource person for SESTRAD	Department	of	Civil		
organized by Department of Civil	Engineering				
Engineering REC Trichy					
Organized 2 day Workshop on	Department	of	Civil		
Finite Element Methods for	Engineering	01			
Engineers on 1^{st} and 2^{nd} February					
2007 under TEQIP Community					
Service.					
Currently guiding three Ph. D and	Department	of	Civil		
one M.S candidate	Engineering	01	C1 / 11		
one min culture	2				

Was the QIP coordinator for one	Institution	
year		
Was the Hostel Warden	Institution	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1986	Student with the Best Academic	IIT, Madras
	Record in M. Tech in	
	Engineering Mechanics	

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)
	FIE	Institution of		
		Engineers,		
		India		
	FIGS	Indian		
		Geotechnical		
		Society		

13. Details of Academic Work

(i) Curriculum Development

(ii)Courses taught at Postgraduate and Undergraduate levels

a) Structural Analysis b) Advanced Strength of Materials c)Mechanics of Solids
d) Experimental Stress Analysis e) Structural Dynamics f) Theory of Elasticity
and Plasticity g) Theory of Plates h) Finite Element Methods i) Engineering
Mechanics j) Basic Civil Engineering

(iii) **Projects guided at Postgraduate level**

1) "Effect of Finite Sizes of Joints on Static and Dynamic Behaviour of Frames"

- 2) "An Analytical Study on the Behaviour of SSRC Plate Under combine dInplan and Lateral Load"
- 3) "An Experimental Investigation on the Efficiency of Beam Column Joints"
- 4) "Analysis of Multistory Frames using Guyan reduction Procedure"
- 5) "Analysis of Plates Using Integral Equation Method"
- 6) 'Base Isolation of Framed Structures"
- 7) "Vibration of Shell Panels Using Integral Equation Method"
- 8) "Static Analysis of Plates Using Three Noded Triangles"
- 9) "Analysis of thin Conical Shell panels Using Integral Equation Method"
- 10) "Vibration of Spherical panels Using Integral Equation Method"
- 11) "Static Analysis of Hybrid Laminated Beams using Shear Deformation Theories"
- 12) 'Analysis of Stiffened Plates Using ANSYS 5.6"
- 13) "Static and Dynamic Analysis of Orthotropic Triangular Plates"
- 14) "Analysis of Laminated Composite Plates using Integral equation Method"
- 15) "Integral Equation Schemes of Laminated Beams"
- 16) "Static Analysis of Thick Plats Using Integral Equation Method"
- 17) "Buckling of Plates subjected to Compressive Inplane Loading"
- 18) "Static and Dynamic Analysis of Laminated Composite Plates"
- 19) "Static and Dynamic Analysis of Thin Plates by Finite Difference Method"
- 20) "Static Analysis of Steel and Laminated Composite Plates Using FE Method Based on Strain Approach"
- 21) "Buckling and Ultimate Load Carrying Capacity of Stiffened tapered Plates"
- 22) "Analysis of Laminated Plates"
- 23) "Performance based Seismic Design of moment resistant Frames"
- 24) 'Earthquake Analysis of Visco-elastic Damped Multi-storied Building"
- 25) 'Analysis of Cylindrical Shells using Integral equation Technique"
- 26) "Static and Dynamic Analysis of Homogeneous Isotropic Rectangular Plates using Finite Difference Method"
- 27) 'Analysis of Beams and Plates due to Moving Loads"
- 28) "3-Dimensional Time History Analysis of Multi-Storey Buildings with ADAS Dampers"
- 29) 'Analysis of Trapezoidal Corrugated Plates Using ANSYS-11"
- 30) "Seismic Analysis of High Rise Buildings Considering the Effect of Floor Slabs"
- 31) "Free Vibration Analysis of Bridge Trusses"
- 32) "Development of Plastic Hinges for Steel Concrete Composite Columns "
- 33) "Free Vibration Analysis of Clamped Laminated Cylindrical Panels using an Integral equation Method"
- 34) "Analysis of Laminated Plates subjected to Moving Load/mass"
- 35) "Analysis of Laminated Plates subjected to moving Oscillators"
- 36) "Analysis of Laminated Skew Plates Using Integral Equation Method"
- 37) "Three dimensional Vibration Analysis of Orthotropic Plates By using Radial Basis Functions"
- 38) "Study of Sandwich Beams with different Core Geometries Subjected to One point loading"
- 39) "Analysis of Thick Plates Using Integral Equation Method"

- 40) "Interfacial Stress Analysis of Externally Plated Reinforced Concrete Beams"
- 41) "Free Vibration Analysis of Composite Skew Plates"
- 42) "Behaviour of Piles Under Static and Dynamic Loads"

14. Details of Major R&D Projects

Title of Project	of Project Funding Agency	Dura	ation	Status	
The of Project		From	То	Ongoing/ Completed	

15. Number of PhDs guided

Name of the PhD	Title of PhD Thesis	Role(Supervisor/ Co-	Year of
Scholar		Supervisor)	Award
M. Asok Kumar	"Studies on Strength and Behaviour of Retrofitted RCC Beams"	Supervisor	2011

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

1. Environmental Impact Analysis of Water Resources Projects , CWRDM, Kozhikkode 16th to 21st August 1993.

2. AICTE Shortterm Course on Vibration Engineering, REC , Calicut 19th October to 1st November 1998.

3. Recent Developments in Analysis and Design of Offshore Structures, REC Calicut 16th to 27th May 1994

4. AICTE Shortterm Course on Systsem Simulation with Digital Computer with Special Emphasis on Project Management ,REC Calicut,17th to 31st May 1995

5. Random Vibration and Application to Earthquake Engineering,IIT Kharagpur,21st to 51st December 1999

(Here I acted as Resource Person also in this Course)

6.Probability Methods in Earthquake Engineering (PMEE 2005),IIT Madras, 11th to 15th July 2005

7.Acted as a Resource person for SESTRAD organized by Department of Civil Engineering REC Trichy

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Organized 2day Workshop on Finite Element Methods for Engineers on 1st and 2nd February 2007 under TEQIP Community Service.

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
MIE	Institution of Engineers, India	
MISTE	Indian Society for Technical Education	

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) <u>Refereed Research Journals</u>:

- 1. R. S. Srinivasan and P. A. Krishnan "Vibration of Cylindrical Shell Panels", Journal of Sound and Vibration 114(3), pp 583-587 (1987)
- 2. R. S. Srinivasan and P. A. Krishnan "Vibration of Conical Shell Panels", Journal of Sound and Vibration 117(1), pp 153-160 (1987)

- 3. R. S. Srinivasan and P. A. Krishnan "Dynamic Analysis of Stiffened Shell Panels", Computers and Structures, 33(3), pp 831-837 (1989)
- R. S. Srinivasan and P. A. Krishnan "Dynamic Analysis of Layered Conical Shell Panel Using Integral Equation Technique", Computers and Structures, 31(6), pp 897-905 (1989)
- 5. R. S. Srinivasan and P. A. Krishnan "Response of Orthogonally Stiffened Cylindrical Shell Panels", AIAA Journal , 28(6), pp 1144-1145 (1990)
- 6. R. S. Srinivasan and P. A. Krishnan "Integral Equation Technique Using Normal Mode Method for Nonlinear Random Vibration of Clamped Rectangular Plates", Probabilistic Engineering Mechanics, 3(4), pp 204-209 (1990)
- R. S. Srinivasan and P. A. Krishnan "Application of Integral equation Technique to Nonlinear Stochastic Response of Rectangular Plates", Journal of Acoustical Society of America, 88(5), pp 2277-2283 (1990)
- R. S. Srinivasan and P. A. Krishnan "Random Response of Thick Laminated Rectangular Plates", Journal of Vibration and Acoustics, ASME Transactions ,113(3), pp 286-291 (1991)
- J. Blachut, L.S. Ramachandra, P. A. Krishnan "Experimental and Numerical Investigation of Plastic Loads for Internally Pressurized Vessel Heads", Pressure Vessel and Piping Codes and Standards, Vol.360, pp 345-359 1998
- 10. P. A. Krishnan and Uma ,"Analysis of Rectangular Plates Using Integral equation Method", Journal of Structural Engineering, SERC Journal, 27(4),pp283-285 (2001)
- 11.P. A. Krishnan and Senthil Kumar, "Static Analysis of Hybrid Laminated Beams Using Shear Deformation Theories", Journal of Structural Engineering, SERC Journal, 32(4),pp327-332 (2005)
- P. A. Krishnan and Smitha George "Forced Response of Angle Ply Llaminates using Finite Difference Method" Institution of Engineers (India) Journal Vol. 88, pp 28-33 (2007).
- **13.** P. A. Krishnan and Simi Gopalan "Static and Dynamic Analysis of Cylindrical Shells using Integral equation Method" The Icfai University Journal of Structural engineering Vol.I No.1 pp 76-81(2008)
- 14. P. A. Krishnan and Rajitha "Static and Dynamic Analysis of Rectangular Plates with Linearly Varying Thickness" Institution of Engineers (India) Journal Vol. 89, pp 3-7 (2009).

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)

(B) Conferences/Workshops/Symposia Proceedings

1. J. Blachut, L.S. Ramachandra, P. A. Krishnan,"Plastic and Shakedown Loads for Internally Pressurized Domes made from Strain hardenignMaterials" Proceeding,9th

International Conference On Pressure Veseel Technology, Sydney Australia, April 2000

- 2. P.A. Krishnan , S. U. Mathangi and M. Asok Kumar" Effect of Damping in Base Isolated Framed Structures" 2nd National Conference on Recent Trends in Concerete Composites for Structural Systems, Kongu Engineering College, Perunthurai, 14th and 15th March 2007.
- 3. E. Satheesh kumar, P.A. Krishnan and M. Asok Kumar,"Seismic Analysis of Visco-Elastic Damped Multi-storey Buildings", International Conference in Emerging Technologies and Science, Amogh Siddhi Educational Society, Maharashtra, February 13th and 14th 2008.
- 4. P.A. Krishnan, M. Asok Kumar and S. Damodharan, "Base Isolation of Framed Structures", National Conference of Emerging Technologies in Civil Engineering for Sustainable Development, SRKR College, Bhimavaram,27th to 29th December 2006.
- 5. P.A. Krishnan and Smitha George," Vibration of Laminated Composite Crss Ply Plates Using Finite Difference Method", National Conference on Focus on Advances in Civil Engineering, TKM College of Engineering, Kollam,1st to 3rd Feb. 2007.
- 6. P.A.Krishnan, "Free Vibration of Skew Laminated Plates using Integral Equation Method", ,24th and 25th February 2010,Technologia , MPCCET, Bhilai.
- P.A.Krishnan, "Analysis of Laminated Plate Subjected to Moving Load", 24th and 25th February 2010, Technologia, MPCCET, Bhilai.
- P.A. Krishnanand ,S. Parmar "A Comparative Study of Loading Resistant to Sandwich Beam panel", Recent Trends in Structural Engineering , 6th and 7th January 2012 VNR Vijnana Jyothi Institute of Engineering and TechnologyJNTU, Hyderabad.
- B Shushoban/Dr. P.A Krishnan "Free vibration analysis of stiffened shells", International Conference on Advances in Civil Engineering and Chemistry of Innovative Materials ACECIM '14, 13th and 14th March 2014, SRM University Chennai.
- 10. P.A.Krishnan and Fareed Kumar "Free Vibration Analysis of Composite Skew Plates" National Conference on Sustainable Development NCSDCE'14, 28th March 2014, Hindustan University of Technology and Science, Chennai.
- N.S. Padmavathy, P.A.Krishnan and Bharath Reddy"Free Vibration Analysis of Prestressed Circular Cylindrical Shells using ABAQUS" National Conference on Advancements in Materials, Construction and Sustainable Environment (AMCSE-2014), 29th March 2014, Kalasalingam University.
- 12. Aniruddh Maddi and P. A. Krishnan"Interfacial Stress Analysis of Externally Plated RC Beams" Futuristic Innovations and Emerging Trends in Civil Engineering FIETCE '14 Department of Civil Engineering, B.S.Abdurahman University, Chennai 5th and 6th May 2014.

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number