Curriculum Vitae

Name: Shishir Kumar Sahu

Born: June 15, 1961, Orissa, India

Present Post : Professor (Higher Administrative Grade), Civil Engineering
NIT, Rourkela-769008

Contact Address:

Office: Professor in Civil Engineering
National Institute of Technology, Rourkela
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Education:

Post Doc. Res.	Vibration of Composite plates, ISVR, University of Southampton, UK, 2007
Ph. D.	Structural Engineering, Indian Institute of Technology, Kharagpur, 2002
M. Sc.(Engg)	Structural Engineering, National Institute of Technology, Rourkela, 1989
B. Sc.(Engg)	Civil Engineering, Sambalpur University, Orissa, India, 1984

Area of Interest: Structural Dynamics, Composite Structures, Finite Element Method, Vibration and Stability of Plates and Shells, Modal analysis of structures, Fracture Mechanics, Nanocomposites.

No of Ph.D. Supervised: 09

Sl. No.	Name of the Student	Year of Award	Title of the Thesis	University Under which Awarded
1	Priyadarshi Das	2022	Parametric resonance characteristics of laminated composite beam with cracks	NIT Rourkela
2	Leena Das	2022	Experimental and numerical vibration analysis of laminated composite stiffened plates with/without cutouts	VSSUT Burla
3	Elluri Venkat Prasad	2019	Vibration, buckling and dynamic instability of metal fiber composite panels	NIT Rourkela
4	Prasant Kr. Tripathy	2018	Vibration of stiffened laminated Composite plates	Sambalpur University
5	Madhusmita Biswal	2016	Vibration, buckling and Parametric resonance of laminated composite shells in hygrothermal environment	NIT Rourkela
6	H S Panda	2015	Vibration, buckling and dynamic instability of delaminated composite curved panels in hygrothermal environment	NIT Rourkela
7	Uttam Kr Mishra	2014	Vibration, buckling and dynamic stability of beam with multiple transverse cracks	NIT Rourkela
8	Manoj Kr. Rath	2013	Dynamic instability of laminated composite curved panels in hygrothermal environment	NIT Rourkela
9	Jayram Mohanty	2013	Vibration, buckling and parametric resonance characteristics of delaminated composite plates subjected to in plane periodic loading	NIT Rourkela
10	A V Asha	2008	Parametric resonance characteristics of laminated composite twisted cantilever panels	NIT Rourkela
11	Rabindra. Kr. Behera	2006	Vibration analysis of multi crack structures	NIT Rourkela

Current research Activities

No of Ph. D students under supervision ongoing: 2

Sl. No.	Name of the Student	Year to be submitted	Title of the Thesis	University Under which Awarded
1	Pritam Kr Pati	2021	Innovative fly ash utilization for sustainable construction	NIT Rourkela
2	Asha patel	2023	Vibration, buckling and parametric resonance characteristics of multiwalled Carbon nanotube Composite plates	NIT Rourkela

No. of M. Tech Research Guided (awarded till date): 02

Sl. No.	Name of the Student	Year of Award	Title of the Thesis	University Under which Awarded
1	Itishree Mishra	2012	Experimental and numerical study on vibration and buckling characteristics of laminated composite panels	NIT Rourkela
2	Sarat Ch. Choudhury	2013	Flexural and shear Strengthening of RC beams with FRP-An experimental study	NIT Rourkela

No of M. Tech (Regular) thesis guided: **35**

Details of Publications (List attached)

i	Journals	85 including **70 SCI/SCOPUS** indexed journals (details attached)
ii	Conferences	35
iii	Any Other, book Chapters: **5**	Written book chapter on "Stability of Composite Plates" for title '**Natural Composites'**, Stadium Press, USA
		Written book chapter on. Vibration analysis of laminated composite beam with transverse cracks (2015) **Advances in Structural Engineering: Mechanics**, V 1, pp. 67-75. Springer
		Written book chapter on 'Hygrothermal Aging Behavior of Fiber-Reinforced Composites' for the book of **Green composites,** Springer Nature Singapore Pte Ltd. 2019, https://doi.org/10.1007/978-981-13-6019-0.
		Written book chapter by Sahu S.K., Kamalakannan S and Pati P K. (2020) Fly ash utilization in concrete tiles and paver blocks, New materials in Civil Engineering. Elsevier, ISBN: 978-0-12-818961-0
		Written book chapter by Sahu S.K., Gupta A and Prasad E V. (2020) Dynamic response of laminated composite plates with piezoelectric actuators, *New materials in Civil Engineering*. Elsevier, ISBN: 978-0-12-818961—0.

Sponsored Research

- Parametric instability of woven fiber composite panels, DST, New Delhi, 25.41 lakhs, 2009-2012
- Nonlinear dynamics of smart composite structures with discrete delamination, 7.0 lakhs, CSIR, 2010
- Fly ash utilization in structural applications for sustainable construction, 32.52 lakhs, Works Department, (R&D and Quality Promotion) Govt. of Odisha, Bhubaneswer.2015

Consultancy Projects and other forms of interaction with industry

- Vetting of design of Residential cum commercial building at Plot No 2254, Khata no 1708/1582, Brahmani Tarang, Rourkela, 3.15 lakhs, June 2022.
- Vetting of design of structural design of Hospital extension in Bargarh, The Design Group, BBSR, 1.77 lakhs, Feb 2022.
- Vetting of design of structural design of multistoried hotel Sea Roses building in Puri, EVOS Buildcon PVT Ltd, 2.36 lakhs, January, 2022.
- Vetting of design of structural design of Farmers Technology center, OUAT building, Bhubaneswar, The Design Group, BBSR,1.18 lakhs, March 2021.
- Investigation of the collapse of PSC Girders at the Flyover at Km 479+897 in Deogarh, NHAI through TPF GETINSA EUROESTUDIOS and Segmental Consulting & Infrastructure Advisory, 2.37 lakhs, Jan-March, 2020
- Vetting of design of B+G+6 building in Brahmani Tarang, Rourkela, Carnex Sales Agencies, Rourkela, 2.25 lakhs, April-June 2019.
- Vetting of design of structural design of multistoried SLDC Office building, Mancheswar, Bhubaneswar, The Design Group, BBSR, 0.54 lakhs, Oct 2018- Dec 2018
- Vetting of design of structural design of multistoried BCCD Office building, Nayapalli, Bhubaneswar, The Design Group, BBSR, 0.52 lakhs, July 2019- Sept 2019.
- Ultrasonic pulse velocity test for Darlipali super thermal power project, NTPC Sundergarh, 9.0 lakhs, April 2016-March 2017.
- Evaluation of Structural stability of crusher plant at Gomar, Tata Steel Ltd, Jamshedpur, 2015, 6.88 lakhs
- Stability test of fire damaged Building, Ordinance factory, Badmal, Odisha, 5.24 lakhs, 2015.
- Checking design of various components such as spur, mid-stream tank, balancing tanks, ungated weir and training wall of NALCO project, WAPCOS, Bhubaneswar, 2.85 lakhs, 2015
- Checking of stability of frame, conveyor gallery, Vedanta, Jharsuguda, 3.0 lakhs, 2013
- Design of Chimney in Indian Rare Earth, Tamilnadu,7.0 lakhs, 2011
- Design of Chimney, Indian Rare Earth, Chhatrapur, 5.0 lakh, 2010
- Measurement of Vibration, OMC, Bhubaneswar, 2.78 lakhs, 2007

Contribution to Institute Management:

- Dean, Planning and Development (2011-2014)
- Head, Civil Engineering (2014-2017), Planning & Architecture (2013-2015)
- Chairman, Board of Trustee, NIT Rourkela (2018-2020)
- Institute coordinator, GIAN(2018-continuing)
- PIC Library(2020-continuing)
- PIC Convocation(2018-2020)
- Professor-in Charge (Institute Seminar), (2003-2008)
- Vice President, Film and Music Society (Students Activity Center) (2004-2006)

Conference Organised:

- Organised the All India Seminar on '**Emerging Trends in Structural Mechanics and Composites**'**(ETSMC-2003)** during 1-2, November, 2003 at NIT, Rourkela as **Convenor.**
- Organised the All India Seminar on **Sustainable Materials and Technology for Better Future,** 11-12, Nov 2017 at NIT Rourkela as Convenor
- Organised the All India Seminar on **Hi-Tech and Value Addition to Crop Production** in Rourkela on 29 April 2018 as Secretary, IE
- Organised the All India Seminar on **Earthquake resistant analysis and design of structures** in Bhubaneswar during 26-27 May 2018 as Secretary, IE
- **Program Chair** for conference on Civil and Architecture, Hong Kong, 2011,

  International Conference on Mechanics Engg, (ICME) , Jakarta, Indonesia, 2013

- **Countries Visited: UK, Germany, Singapore, Hong Kong, Indonesia**

Continuing education Program/Short Term course conducted:

- GIAN course on Structural Dynamics: Analysis and Control, October 1-5, 2018
- GIAN course on Coupled Unsaturated and THM Behaviour of Soils and Rocks: Applications to Geo-Energy and Geo-environmental Problems, December 17-21, 2018
- Analysis , design and Health monitoring of Structures, 30 September to 2nd October, 2016. (Industry institute interaction course)
- Finite element applications to Engineering, Bhubaneswar, 2010, 64
- Disaster Management, preparedness and mitigation: Staff Development Programme, Dec.2008, 50 Software applications to Civil Engineering, NIT Rourkela., 2009, 40

List of research publications in referred journals

2022

1. Pati P. K and Sahu S K, Structural Performance of concrete containing fly ash based light weight angular aggregates, Advances in Concrete Constructions, 2022, 13(4), 291-305.
2. Das P and Sahu S K, Experimental and numerical free vibration analysis of industry-driven woven fibre laminated glass/epoxy composite beams, *Current Science*, 122, 2022.
3. Patel A., Sahu S.K. (2022) Experimental Modal Analysis of Carbon Nanotubes-Reinforced Composite Plates. Recent Advances in Computational and Experimental Mechanics, Vol II. Lecture Notes in Mechanical Engineering. Springer, https://doi.org/10.1007/978-981-16-6490-8_49.

2021

4. Das P and Sahu S K, Free vibration analysis of industry-driven woven fiber laminated carbon/epoxy composite beams by experimental and numerical approach, *Polymers and Polymer Composites*, 2021, https://doi.org/10.1177/09673911211052825.

5. Sinha L, Tripathy A, Nayak A N and Sahu S K, Free vibration behaviour of angle-ply laminated composite stiffened plates, *International Journal of Structural Stability and Dynamics, 2021,* doi.org/10.1142/S021945542150187X.

6. Das P, Muni M K and Sahu S K, On crack detection in a laminated glass/epoxy composite beam under free vibration with fuzzy logic aid, *International Journal of Structural Stability and Dynamics,* 20 (12), 2020, 2050129. https://doi.org/10.1142/S0219455421501765.

7. Sinha L, Das D, Nayak A N and **Sahu S K** , Experimental and numerical study on free vibration characteristics of laminated composite plate with/without cut-out, *Composite Structures*, 256 (15), 2021, 113051.

8. Das P., Chakurkar V.D. and ,Sahu S.K, Finite Element Modeling of Composite Beam with Transverse Cracks Under Free Vibration with Experimental Validation, ***Lecture Notes in Mechanical Engineering***Volume 52, Pages 481 - 4922021 International Conference on Recent Advances in Mechanical Engineering Research and Development, ICRAMERD 2020, 24 July 2020 - 25 July 2020

2020

9. **Patel A**, Das R and **Sahu S K**, Experimental and Numerical Study on Free Vibration of Multiwall Carbon Nanotube Reinforced Composite Plates, *International Journal of Structural Stability and Dynamics*, 20 (12), 2020, 2050129. https://doi.org/10.1142/S0219455420501291

10. Prasad, E.V., C Shivteja and **Sahu, S.K**, Effect of nanoalumina on fatigue characteristics of fiber metal laminates, Polymer testing, 85, 2020, doi.org/10.1016/j.polymertesting.2020.106441.

11. Sahu, S.K., Das, P., (2020) Experimental and numerical studies on vibration of laminated composite beam with transverse multiple cracks, *Mechanical Systems and Signal Processing*, 135, DOI: 10.1016/j.ymssp.2019.106398.

12. Sinha, L., Mishra, S.S., Nayak, A.N., Sahu, S.K., (2020) Free vibration characteristics of laminated composite stiffened plates: Experimental and Numerical investigation, *Composite Structures* , 233, 111557, https://doi.org/10.1016/ j. compstruct. 2019.

13. Prasad, E.V., **Sahu, S.K**.(2020), "Buckling of fiber metal laminated plates-numerical and experimental studies", *Aircraft Engineering and Aerospace Technology*.92(3), pp. 472-481. https://doi.org/10.1108/AEAT-01-2019-0005.

14. Panda, H.S., **Sahu, S.K**., Parhi, P.K., (2020) Parametric instability of delaminated composite curved panels subjected to moist environment, Materials Today Proceedings, 21, Part-2, 1213-1217.

15. Das P and **Sahu S. K**, (2020) Experimental and numerical study on free vibration of cracked woven fiber glass/epoxy composite beam, Materials Today Proceedings, https://doi.org/10.1016/j.matpr.2020.03.320.

16. Pati P K and Sahu S K, (2020) Innovative utilisation of flyash in concrete tiles for sustainable constructions, Materials Today Proceedings, https://doi.org/10.1016/j.matpr.2020.02.971.

2019

17. Prasad, E.V., Sahu, S.K. (2019), Parametric Resonance Characteristics of Woven Fiber Metal Laminated Plates, *International Journal of Applied Mechanics*, 11 (4), DOI: 10.1142/S1758825119500340

2018

18. Prasad, E.V., Sahu, S.K. (2018), Vibration Analysis of Woven Fiber Metal Laminated Plates - Experimental and Numerical Studies, *International Journal of Structural Stability and Dynamics*, 18 (11, DOI: 10.1142/S0219455418501444

19. Dey, S., Mukhopadhyay, T., Sahu, S.K., Adhikari, S. (2018) Stochastic dynamic stability analysis of composite curved panels subjected to non-uniform partial edge loading, *European Journal of Mechanics, A/Solids*, 67, pp. 108-122., .DOI: 10.1016/ j.euromechsol.2017.09.005.

20. Manan, N.F.A., Jam, M.F.M., Sahu, S.K., Mahmud, J. Failure analysis of graphite epoxy composite plate under transverse sinusoidal load, (2018) International Journal of Engineering and Technology(UAE), 7 (3), pp. 62-66. DOI: 10.14419/ijet.v7i3.11.15931

2017

21. Biswal, M., Sahu, S.K., Asha, A.V. (2017), Dynamic Stability of Woven Fiber Laminated Composite Shallow Shells in Hygrothermal Environment, *International Journal of Structural Stability and Dynamics*, 17 (8), DOI: 10.1142/ S0219455417500845

22. Panda, H.S., Sahu, S.K., Parhi, P.K. (2017), Thermal Effects on Parametric Instability of Delaminated Woven Fabric Composite Curved Panels, *International Journal of Structural Stability and Dynamics*, 17 (1),DOI: 10.1142/ S0219455417500080.

2016

23. Biswal, M., Sahu, S.K., Asha, A.V., Nanda, N. (2016) Hygrothermal effects on buckling of composite shell-experimental and FEM results, *Steel and Composite Structures*, 22 (6), pp. 1445-1463. DOI: 10.12989/scs.2016.22.6.1445

24. Dey, S., Mukhopadhyay, T., Sahu, S.K., Adhikari, S. (2016) Effect of cutout on stochastic natural frequency of composite curved panels, *Composites Part B: Engineering*, 105, pp. 188-202. DOI: 10.1016/j.compositesb. 2016.08.028

25. Biswal, M., Sahu, S.K., Asha, A.V. (2016) Vibration of composite cylindrical shallow shells subjected to hygrothermal loading-experimental and numerical results, *Composites Part B: Engineering*, 98, pp. 108-119. DOI: 0.1016/j.compositesb. 2016.05. 037.

2015

26. Biswal, M., Sahu, S.K., Asha, A.V. (2015) Experimental and numerical studies on free vibration of laminated composite shallow shells in hygrothermal environment
Composite Structures, 127, pp. 165-174. DOI: 10.1016/j.compstruct.2015.03. 007

27. Dey, S., Mukhopadhyay, T., Sahu, S.K., Li, G., Rabitz, H., Adhikari, S. (2015) Thermal uncertainty quantification in frequency responses of laminated composite plates, *Composites Part B: Engineering*, 80, art. no. 3641, pp. 186-197. DOI: 10.1016/j.compositesb.2015.06.006.

28. Panda, H.S., Sahu, S.K., Parhi, P.K. (2015) Buckling behavior of bidirectional composite flat panels with delaminations in hygrothermal field , *Acta Mechanica*, 226 (6), pp. 1971-1992. DOI: 10.1007/s00707-014-1280-4.

29. Panda, H.S., Sahu, S.K., Parhi, P.K. (2015), Hygrothermal response on parametric instability of delaminated bidirectional composite flat panels, *European Journal of Mechanics, A/Solids*, 53, art. no. 3185, pp. 268-281. DOI: 10.1016/j.euromechsol.2015.05.004.

30. Mishra, U.K., Sahu, S.K. (2015), Parametric instability of beams with transverse cracks subjected to harmonic in-plane loading, *International Journal of Structural Stability and Dynamics*, 15 (1), DOI: 10.1142/S0219455415400064

31. Mishra, I., Sahu, S.K. (2015), Modal analysis of woven fiber composite plates with different boundary conditions, *International Journal of Structural Stability and Dynamics*, 15 (1),. DOI: 10.1142/S0219455415400015.

32. Mohanty, J., Sahu, S.K., Parhi, P.K. (2015), Parametric instability of delaminated composite plates subjected to periodic in-plane loading, *JVC/Journal of Vibration and Control*, 21 (3), pp. 419-434. DOI: 10.1177/1077546313485613

33. Panda, H.S., Sahu, S.K., Parhi, P.K., Asha, A.V. (2015), Vibration of woven fiber composite doubly curved panels with strip delamination in thermal field, *JVC/Journal of Vibration and Control*, 21 (15), pp. 3072-3089.. DOI: 10.1177/1077546313520024.

34. ` Behera S., Sahu S.K., Asha A.V. (2015) Vibration Analysis of Laminated Composite Beam with Transverse Cracks. In: Matsagar V. (eds) *Advances in Structural Engineering*. Springer, New Delhi. https://doi.org/10.1007/978-81-322-2190-6_7

2014

35. Panda, H.S., Sahu, S.K., Parhi, P.K. (2014), Effects of moisture on the frequencies of vibration of woven fibre composite doubly curved panels with strip delaminations *Thin-Walled Structures*, 78, pp. 79-86.

2013

36. Mishra, U.K., Sahu, S.K., (2013), On parametric response characteristics of beams with multiple transverse cracks, *International Journal of Acoustics and Vibrations*, 18 (4), pp. 155-162.

37. Mohanty, J., Sahu, S.Kr., Parhi, P.Kr. (2013), Numerical and experimental study on buckling behaviour of multiple delaminated composite plates, *International Journal of Structural Integrity*, 4 (2), pp. 240-257. DOI: 10.1108/ 17579861311321717.

38. Nanda, N., Sahu, S.K. (2013), Nonlinear free and forced vibrations of delaminated composite plates in Hygrothermal environments, *Advances in Vibration Engineering*, 12 (4), pp. 349-355.

39. Nanda, N., Sahu, S.K., Bandyopadhyay, J.N. (2013), Effect of delamination on nonlinear transient response of composite shells in hygrothermal environments *International Journal of Structural Integrity*, 4 (3), pp. 349-367., DOI: 10.1108/IJSI-05-2010-0007

40. Panda, H.S., Sahu, S.K., Parhi, P.K. (2013), Hygrothermal effects on free vibration of delaminated woven fiber composite plates - Numerical and experimental results, *Composite Structures*, 96, pp. 502-513. DOI: 10.1016/j.compstruct. 2012. 08. 057.

41. M. K. Rath and S. K. Sahu, 2013, Parametric instability of square laminated plates in hygrothermal environment, *Journal of Structures*, ID 492839, doi.org/10.1155/2013/492839.

42. **M.** K. Rath and S. K. Sahu, 2013, Experimental investigations for free vibration of woven fiber composite plates subjected to hygrothermal loading, *Journal of Thermal energy and power Engineering*, 2, 94.103.

2012

43. Rath, M.K., Sahu, S.K. (2012), Vibration of woven fiber laminated composite plates in hygrothermal environment, JVC/Journal of Vibration and Control, 18 (13), pp. 1957-1970. DOI: 10.1177/1077546311428638.

44. Sahu, S.K., Rath, M.K., Datta, P.K., Sahoo, R. (2012), Parametric resonance characteristics of laminated composite curved shell panels in a hygrothermal environment, *International Journal of Aeronautical and Space Sciences*, 13 (3), pp. 330-347. DOI: 10.5139/ IJASS.2012.13.3.347

45. Mohanty, J., Sahu, S.K., Parhi, P.K. (2012), Numerical and experimental study on free vibration of delaminated woven fiber glass/epoxy composite plates, *International Journal of Structural Stability and Dynamics*, 12 (2), pp. 377-394.. DOI: 10.1142/ S0219455412500083

46. Nanda, N., Sahu, S.K. (2012), Free vibration analysis of delaminated composite shells using different shell theories, *International Journal of Pressure Vessels and Piping*, 98, pp. 111-118.. DOI: 10.1016/j.ijpvp.2012.07.008.

47. M. K. Rath and S. K. Sahu, 2012, Dynamic response of Composite plates in hygrothermal environment, *Journal of Multiscale modeling*, 4,(3), 1250009,1-14. https://doi.org/10.1142/S1756973712500096.

48. M K Rath and S. K. Sahu, 2012, Parametric resonance of woven fiber composite plates in adverse hygrothermal environment, *Journal of Multiscale modeling* 4(4), 1250016 , doi.10.114/S1756973712500163.

2011

49. Asha, A.V., Sahu, S.K. (2011), Parametric instability of twisted cross-ply laminated panels, *Aerospace Science and Technology*, 15 (6), pp. 465-475. DOI: 10.1016/j.ast. 2010.09.010

50. Rath, M.K., Sahu, S.K. (2011), Static behavior of woven fiber-laminated composites in hygrothermal environment, *Journal of Reinforced Plastics and Composites*, 30 (21), pp. 1771-1781. DOI: 10.1177/0731684411426811.

51. Sahu, S. K., et al. "Parametric Instability of Laminated Composite Doubly Curved Shell Panels Subjected to Hygrothermal Environment." *Advanced Materials Research*, vol. 383–390, Trans Tech Publications, Ltd., Nov. 2011, pp. 3212–3216. Crossref, doi:10.4028/www.scientific.net/amr.383-390.3212.

2010

52. Nanda, N., Sahu, S.K., Bandyopadhyay, J.N. (2010), Effect of delamination on the nonlinear transient response of composite shells in hygrothermal environments, *International Journal of Structural Integrity*, 1 (3), pp. 259-279.. DOI: 10.1108/17579861011092382.

2008

53. Sahu, S.K., Asha, A.V. (2008), Parametric resonance characteristics of angle-ply twisted curved panels, *International Journal of Structural Stability and Dynamics*, 8 (1), pp. 61-76.. DOI: 10.1142/S0219455408002557.

2007

54. Sahu, S.K., Datta, P.K. (2007), Research advances in the dynamic stability behavior of plates and shells: 1987-2005 - Part I: Conservative systems, *Applied Mechanics Reviews*, 60 (1-6), pp. 65-75.. DOI: 10.1115/1.2515580

55. Das, B., Sahu, S.K., Ray, B.C. (2007), Effects of loading speed on the failure behaviour of FRP composites, *Aircraft Engineering and Aerospace Technology*, 79 (1), pp. 45-52.. DOI: 10.1108/00022660710720485.

56. Sahu S.K., Asha A.V., Nagaraju S. (2008) Vibration And Stability Of Cross-Ply Laminated Twisted Cantilever Plates. In: İnan E., Sengupta D., Banerjee M., Mukhopadhyay B., Demiray H. (eds) Vibration Problems ICOVP-2007. Springer *Proceedings in Physics*, vol 126. Springer, Dordrecht. https://doi.org/10.1007/978-1-4020-9100-1_36

2006

57. Behera, R.K., Parhi, D.R.K., Sahu, S.K. (2006), Vibration analysis of a cracked rotor surrounded by viscous liquid. *JVC/Journal of Vibration and Control*, 12 (5), pp. 465-494. DOI: 10.1177/1077546306064267

58. Behera, R.K., Parhi, D.R.K., Sahu, S.K. (2006), Dynamic characteristics of a cantilever beam with transverse cracks International, *Journal of Acoustics and Vibrations*, 11 (1), pp. 3-18.

2005

59. Behera, R.K., Parhi, D.R.K., Sahu, S.K. (2005), Vibration analysis of a cracked beam subjected to a moving mass, *International Journal of Acoustics and Vibrations*, 10 (4), pp. 197-201. Cited 1 time.

60. Sahu, S.K., Asha, A.V., Mishra, R.N. (2005), Stability of laminated composite pretwisted cantilever panels, *Journal of Reinforced Plastics and Composites*, 24 (12), pp. 1327-1334. Cited 8 times. DOI: 10.1177/0731684405049856.

2003

61. Sahu, S.K., Datta, P.K. (2003), Dynamic stability of laminated composite curved panels with cutouts, *Journal of Engineering Mechanics*, 129 (11), pp. 1245-1253. Cited 32 times. DOI: 10.1061/(ASCE)0733-9399(2003)129:11(1245)

62. . Sahu, S. K. and Datta, P.K, Parametric instability characteristics of laminated composite curved panel subjected to concentrated in-plane edge loading, *Journal of Advances in Vibration Engineering*, 2, 2003, 142-150.

2002

63. Sahu, S.K., Datta, P.K. (2002), Vibration of doubly curved panels with cutouts *Journal of the Institution of Engineers (India): Aerospace Engineering Journal*, 83, pp. 25-28.
64. Sahu, S.K., Datta, P.K. (2002), Dynamic stability of curved panels with cutouts, *Journal of Sound and Vibration*, 251 (4), pp. 683-696.DOI: 10.1006/ jsvi.2001.3961.

2001

65. Sahu, S.K., Prabhakar, D.L., Datta, P.K. (2001), Vibration and buckling of laminated composite plates subjected to non-uniform in-plane edge loading, *Journal of Structural Engineering*, 28 (2), pp. 75-80.

66. Sahu, S.K., Datta, P.K. (2001), Parametric instability of doubly curved panels subjected to non-uniform harmonic loading, *Journal of Sound and Vibration*, 240 (1), pp. 117-129.. DOI: 10.1006/jsvi.2000.3187

67. Sahu, S.K., Datta, P.K. (2001), Parametric resonance characteristics of laminated composite doubly curved shells subjected to non-uniform loading, *Journal of Reinforced Plastics and Composites*, 20 (18), pp. 1556-1576.. DOI: 10.1106/U2VL-8673-4K1N-J1W7.

2000

68. Sahu, S.K., Datta, P.K. (2000), Dynamic instability of laminated composite rectangular plates subjected to non-uniform harmonic in-plane edge loading, *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, 214 (5), pp. 295-312. Cited 20 times., DOI: 10.1243/ 0954410001532079

69. Sahu, S.K., Datta, P.K. (2000), Parametric instability characteristics of laminated composite curved panels, *Journal of the Institution of Engineers (India): Aerospace Engineering Journal*, 81 (1), pp. 20-24.

Publications in National Journals: (1996-1998)

1. **Sahu S. K.** and Jain K. K**,** Assessment of concrete quality from pulse velocity tests, *Civil Engineering and Construction Review*, 1998, 43-45.
2. **Sahu S. K.** Sahoo A. K. and Barik K.C. Shear failure of deep steel fibre reinforced concrete beams, *Civil Engineering and Construction Review*, 1998, 56-60.
3. **Sahu S. K.** and Samal A. K**.** New dimensions in cementitious studies through FAL-G, *Civil Engineering and Construction Review*, 1997, 39-43.
4. **Sahu S. K.** Padma Radhika P.V. and Jain, K. K. Shear strength of fibre reinforced concrete deep beam, *Civil Engineering and Construction Review*, 1996, 45-51.

List of full papers published in Seminar/Conferences and book chapters:

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