

1. Name and full correspondence address: Manu Sharma, Room no 320, Block 2, UIET, Panjab University, sector 25, Chandigarh.
2. Email(s) and contact number(s): manu@pu.ac.in and 9888509778
3. Institution: UIET, Panjab University, Chandigarh
4. Date of Birth: 6th april 1976
5. Gender (M/F/T): M
6. Category Gen/SC/ST/OBC: Gen
7. Whether differently abled (Yes/No): No
8. Academic Qualification (Undergraduate Onwards)

S.No	Degree	Year	Subject	University/Institution	% of marks
1	B.Tech	1998	Mechanical engineering	NIT Hamirpur, H.P (formerly REC Hamirpur)	74%
2	M.Tech	1999	Design of mechanical equipments	IIT Delhi	8.5/10 CGPA
3	Ph.D	2004	Mechanical engineering	IIT Delhi	----- --

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award:

Title:- Studies on application of fuzzy logic for active vibration control of beams and plates using piezoelectric patches.

Guide's name:- Professor S. P. Singh.

Institute:- IIT Delhi.

Year of award:- 2004

10. Work experience (in chronological order).

S.No	Positions held	Name of the institute	From	to	payscale
1	Lecturer	UIET, Panjab University, Chandigarh.	18 th august 2004	7 th February 2010	19260+6000
2	Reader	UIET, Panjab University,	8 th February 2010	7 th February 2013	25140+8000

		Chandigarh.			
3	Associate Professor	UIET, Panjab University, Chandigarh.	8 th February 2013	Till today	38800+9000

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1	V I Mantra (second prize)	National instruments	2002

12. Publications (*List of papers published in SCI Journals, in year wise descending order*).

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	B K Sarabi, Manu Sharma and Damanjeet Kaur	A Novel Technique for Active Vibration Control, Based on Optimal Tracking Control	Pramana- Journal of physics, Vol.88, No.1, pp. , 2017 (Springer) Indexing: SCIE, IF:0692	88		2017
2	Poonam sood and Manu Sharma	AVC of a smart plate with PZT sensor-actuator using direct method of model updating	Ferroelectrics, Volume 510, pp. 184-195, 2017 - Issue 1, (Taylor & Francis), Indexing: SCI, IF: 0.55	510	184-195	2017
3	B K Sarabi, Manu Sharma, Damanjeet Kaur and Navin Kumar	An Optimal Control Based Technique for Generating Desired Vibrations in a Structure	Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Volume 41. Issue 3, pp. 219-228, (Springer). Indexing: SCIE, IF: 0.333	41	219-228	2017
4	Gaurav Sapra, Manu Sharma and Renu Vig	Active vibration control of a beam instrumented with MWCNT/epoxy nanocomposite sensor and PZT-5H actuator, robust to variations in temperature.	Microsystem Technologies, (Springer). Indexing: SCI, IF: 1.195	online	online	2017
5	Neeraj Singhal, Manu Sharma and S K Mangal	Optimal placement of piezoelectric patches over a smart structure	Accepted for publication in Integrated	accepted	accepted	2017

			Ferroelectrics, (Taylor & Francis). Indexing: SCIE, IF: 0.457			
6	B K Sarabi, Manu Sharma and Damanjeet Kaur	Simulation of a New Technique for Vibration Tests, Based Upon Active Vibration Control	IETE journal of research, Vol. 62, No. 6 , pp.1-9, 2016 (Taylor & Francis) Indexing: SCIE, IF: 0.284	62	1-9	2016
7	B K Sarabi, Manu Sharma and Damanjeet Kaur	A Novel Technique for Generating Desired Vibrations in Structure	Integrated ferroelectrics Vol.176, No.1, pp. 236-250, 2016 (Taylor & Francis), Indexing : SCIE IF: 0.44	176	236-250	2016
8	Amrinder pal singh, Manu Sharma and Inderdeep Singh	Optimal control of thrust force for delamination- free drilling in glass- fiber- reinforced plastic laminates	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture.	231	2396- 2407	2016
9	Amrinder pal singh, Manu Sharma and Inderdeep Singh	A review of modeling and control during drilling of fiber reinforced plastic composites	Composites Part B: Engineering	47	118-125	2013
10	Vivek gupta, Manu Sharma, Nagesh Thakur	Active structural vibration control: Robust to temperature variations	Mechanical Systems and Signal Processing	33	167-180	2012
11	Vivek Gupta, Manu Sharma, Nagesh Thakur, S P Singh	Active vibration control of a smart plate using a piezoelectric sensor– actuator pair at elevated	Smart Materials and Structures	20	105023 (13pp)	2011

		temperatures				
12	Vivek Gupta, Manu Sharma, Nagesh Thakur	Mathematical modeling of actively controlled piezo smart structures: a review	Smart Structures and Systems,	8, No. 3	275-302	2011
13	Vivek Gupta, Manu Sharma, Nagesh Thakur	Optimization Criteria for Optimal Placement of Piezoelectric Sensors and Actuators on a Smart Structure: A Technical Review	Journal of intelligent materials systems and structures	21	1227-1243	2010
14	Manu Sharma, S P Singh, B L Sachdeva	Modal control of a plate using a fuzzy logic controller	Smart Materials and Structures	16	1331–1341	2007
15	Manu Sharma, S P Singh, B L Sachdeva	Fuzzy logic based modal space control of a cantilevered beam instrumented with piezoelectric patches	Smart Materials and Structures	13	1017-1024	2005

13. Detail of patents.

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	Artificial Breathing Capability Device (ABCD)	Joseph Mathew (PGIMER), Navin Kumar (IIT Ropar), Manu Sharma (UIET) and Sukesha (UIET)	Applied	Applied	India	Pending

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's name	Publisher	Year of publication
1	Theoretical and experimental investigation into 'Efficient Modal Control Strategies' as applied on a Plate Structure	Manu Sharma, S P Singh	Springer International Publishing Switzerland	2015
2	Optimal Control of Drilling Process for Hole Making in Fiber Reinforced Plastics: A Review	Amrinder pal singh, Kishore debnath, Manu sharma, Inderdeep singh	Nova Science Publishers	2015

15. Projects completed:

S.No	Title	Cost in Lakh	Duration	Other investigators	Role as PI/Co-PI	Agency
1	Development of vibration shaker plate in which first three modes of vibration are simultaneously tracked.	7.5	3 years	none	PI	UGC
2	Development of Armour Wire Testor (AWT)	30	2 years	Professor Goswamy, Dr. Sukesha, Dr. Naveen Aggarwal and engineers of Oceaneering company.	Co-PI	Oceaneering Development Centre, Chandigarh

16. Any other Information (maximum 500 words)

Got second prize consisting of NI instruments worth 2000 US \$ in a national level paper contest "VI Mantra 2002". Received Labview 10 user license, DAQ card cable and accessories worth Rs. 7.5 Lakhs from National Instruments. I was member of elite 'Advisory council' of 'LG electronics'. This council was made to help 'LG' in changing the face of business in India.