

Profile Page

Research Interests :

Permeability of Concrete, Reinforced Concrete Design and Steel Design, Concrete Technology.

Journal Publications :

Year	Journal	Publication
2020	Structures (Elsevier Publisher), Volume 27, October 2020, Pages 673-686,	A. Thakur, K. Senthil, A.P. Singh, M.A. Iqbal, Prediction of Dynamic Amplification Factor on Clay Brick Masonry Assemblage
2020	Journal of Building Engineering (Elsevier Publisher), Volume 29, May 2020, 101169	Ashish Simalti and A.P Singh, Comparative study on direct shear behavior of manufactured and recycled shredded tyre steel fiber reinforced self-consolidating concrete
2020	Proceedings, Ecology, Environment and Conservation, November 2020 (SCOPUS Indexed)	K. Senthil, S. Rupali, Ajay Pratap, A. Thakur, A. P. Singh, Behaviour of concrete brick and flyash brick on infilled frame under cyclic loading
2017	International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp	K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS
2013	International Journal of Structural and Civil Engineering Research, Vol 2, No. 4, pp 175- 183	Singh M P, Singh S P and Singh A P , Strength Development of Hybrid Steel Fibre Reinforced Concrete
2013	International Journal of Emerging Technology and Advanced Engineering , Vol 3, Issue 11, pp 53-61	Singh S P, Singh A P and Singh M P , Strength Development and Water Permeability of Steel Fibre Reinforced Concrete
2013	International Journal of Civil and Environmental Engineering Vol:7, No:10	A. P. Singh, Strength and Permeability Characteristics of Steel Fibre Reinforced Concrete
2012	Proceedings of the Institution of Civil Engineers-Construction Materials. 165. 99-110,	Surinder P Singh, Amrit P Singh, Vineet Bajaj, Flexural fatigue strength of hybrid fibrous concrete beams
2012	Magazine of Concrete Research, 64 (4), 361-373	V Bajaj, SP Singh, AP Singh, SK Kaushik, Flexural fatigue analysis of hybrid fibre-reinforced concrete
2011	Indian Concrete Institute	SP Singh, AP Singh, V Bajaj, Flexural Fatigue Life Distribution of Hybrid Steel-Polypropylene Fibrous Concrete
2011	International Review of Civil Engineering, (Itlay)	A P Singh and D Singhal, Permeability of Steel Fibre Reinforced Concrete- Influence of Fibre Shape and Fibre Content
2011	Procedia Engineering, 14, 2823–2829	A.P. Singh, Dharendra Singhal, Permeability of Steel Fibre Reinforced Concrete Influence of Fibre Parameters
2010	ASIAN JOURNAL OF CIVIL ENGINEERING (BUILDING AND HOUSING) 11 (4), 495-507	SP Singh, AP Singh, V Bajaj, Strength and flexural toughness of concrete reinforced with steel-polypropylene hybrid fibres
2010	International Review of Civil Engineering 1 (1), 92-99	SP Singh, AP Singh, V Bajaj, Flexural Fatigue Analysis of Hybrid Steel-Polypropylene Fibre Reinforced Concrete
2002	Journal of Ferro-cement, Vol 32	A P Singh , Ramji Agarwal, D Singhal , "Permeability and Strength Characteristics of Steel Fibre Reinforced Concrete

2001	Journal of Institution of Engineers, Vol 19	A P Singh & D Singhal , Permeability of Steel Fibre Reinforced Concrete,
1998	Journal of Institution of Engineers	A P Singh & D Singhal, Effect of Fibre Shapes on Compressive and Bond Strengths of Steel Fibre Reinforced Concrete
1992	The Indian Concrete Journal , Vol 19	S K Saluja, M S Samra & A P Singh, Compressive Strength of Fibrous Concrete
1992	Journal of Structural Engineering,	S K Saluja, M S Samra & A P Singh, Flexure and Shear Strength of Fibre Reinforced Beams

Conference Publications :

Year	Conference	Publication
2020	Conference Proceedings, Materials Today Proceedings (SCOPUS Indexed)	A. Thakur, K. Senthil, Rachit Sharma, A. P. Singh, Employment of Crumb Rubber Tyre in Lightweight Masonry Bricks
2019	UKIERI Concrete Congress 2019, NIT Jalandhar	AshishSimalti, A P Singh, Mix proportioning of recycled steel fiber reinforced self- compacting concrete
2019	EGRWSE 2019, University of Illinois, Chicago, USA, during June 16-20, 2019(Accepted)	AshishSimalti, A P Singh, Rheological and Mechanical Properties of Recycled Steel fiber reinforced Self Consolidating concrete
2018	International Conference on Theoretical and Experimental Advances in Civil Engineering, SRM University, Chennai, Tamil Nadu, India.	K. Senthil, S. Rupali, H.S. Bhatti, A.P. Singh, Numerical studies on the behaviour of highway metallic lamp post under light vehicles impact
2018	International Conference on Theoretical and Experimental Advances in Civil Engineering, SRM University, Chennai, Tamil Nadu, India.	K. Senthil, S. Rupali, A.P. Singh, Numerical investigations on the behaviour of reinforced concrete building against blast loading
2018	EGRWSE 2018, NIT Jalandhar.	ArchanaVerma, A.P Singh and AshishSimalti, Numerical studies of short concrete-filled double skin composite tube columns under axially compressive loads
2018	2nd International Conference on Structural integrity, 2018 IITM, Chennai.	I. SenthilKasilingam, RupaliSenthil, M A Iqbal, Ankush Thakur, A. P. Singh, Influence of Curvature Ratio on Perforation of 2024 Aluminium by Conical Impactor
2018	Proceeding of National Conference: Advanced Structures, Materials And Methodology in civil Engineering (ASMMCE - 2018), NIT Jalandhar	AshishSimalti, AP Singh, Determination of Most Suitable Position of Shear Wall in an Asymmetrical Multistory Building for Earthquake Zone IV
2015	International UKIERI Concrete Congress on Concrete Research Driving Profit and Sustainability, NIT Jalandhar, Punjab,	M Bhandari, T Diana, A P Singh, "Economic Design of Water Tank with reference to IS : 3370-2009"
2015	International UKIERI Concrete Congress on Concrete Research Driving Profit and Sustainability, NIT Jalandhar	S Chiranjia Kumari Devi, A P Singh, Amardeep Meena, Bavita Bhardwaj "Comparative Study of N-type truss and pre-engineered Steel Roof Truss with reference to IS : 800-1984 and IS : 800-2007"

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
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Book Chapter	Influence of Curvature Ratio on Perforation of 2024 Aluminium by Conical Impactor	Springer Lecture Notes in Mechanical Engineering	K Senthil, S Rupali, M A Iqbal, A Thakur, A P Singh		2019
Book Chapter	Numerical studies on safeguarding of cantilever retaining structures by sustainable backfilling materials	Springer Nature, Lecture Notes in Civil Engineering	K. Senthil, A. Thakur, A.P Singh		2019

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Principal Investigator		Permeability of Steel Fibre Reinforced Concrete	Ministry of Human Resources Development, Govt. of India	1996	2004	8.00 Lacs	Completed	

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	International	Innovations in Concrete Construction	NIT Jalandhar	05-03-2013	08-03-2013	Congress Organising Committee Member
Conference	International	Concrete Research Driving Profit and Sustainability	NIT Jalandhar	02-11-2015	05-11-2015	Congress Organising Committee Member
Conference	International	Concrete: The Global Builder	NIT Jalandhar	05-03-2019	08-03-2019	Congress Organising Committee Member

Professional Affiliations :

Designation	Organization
Elected Fellow	Institution of Engineers, India

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Vinod Kumar	Laboratory Investigation of Reclaimed Asphalt Pavement in Warm Mix Asphalt	In Progress	2018	Dr Rajeev Kumar
Ankush Thakur	Experimental and numerical studies on the response of modified masonry walls against projectile impact	In Progress	2018	Dr Senthil Kasilingam
Ashish Simalti	Mechanical and durability properties of recycled steel fiber reinforced self compacting concrete	In Progress	2016	
Maninder Pal Singh	Water Permeability and Strength Characteristics of Hybrid Steel Fibre Reinforced Concrete	Completed	2015	Dr SP Singh

Vineet Bajaj	Flexural Fatigue Strength of Steel - Polypropylene Hybrid Fibre Reinforced Concrete	Completed	2011	Dr SP Singh
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PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Rahul Kumar	Check the suitability of high rise buildings on the basis of cost and strength comparison between building with shear wall and without shear wall (with the column) on ETABS.	In Progress	2020	
Sachin Chug	Determining the optimum height of cushion over existing culverts to minimize the live load intensity without redesigning using STAAD Pro analysis	In Progress	2020	
Nikhil	Effectiveness of Fluid Viscous Dampers in Improving Seismic response of Reinforced Concrete buildings	Completed	2019	
Shaziya	Comparative Study of Seismic Responses of Shear wall and Tuned Mass Damper in High Rise reinforced Concrete Building	Completed	2019	
Anu Peter	Seismic Performance of Tall Buildings With Linked Column System	Completed	2019	
Vimal Alex Mathew	Comparative study of seismic responses of base isolator and X bracing in an irregular RC frame	Completed	2018	
Ivan Biju Vaghese	Estimation of seismic gap between pounding and mitigation techniques	Completed	2018	
Swati Agarwal	Revision made in IS 1893 2002 and its impact on designing structures	Completed	2018	
Ayush	Performance study of different staging patterns on elevated intze tank according to IS 1893 (Part-II) 2014	Completed	2018	
Kartik Bedi	Parametric study on design of bunkers	Completed	2018	
Archana Verma	Numerical Studies on Short Concrete – Filled double Skin Composite Tube Column Under Axially Compressive Loads By Using ABAQUS/CAE 6.14	Completed	2017	
Midhun Babu	Seismic Performance Analysis of Soft Storey Irregular Buildings with Re-entrant Corner and Diaphragm Discontinuity	Completed	2017	
Prince Gupta	Dynamic Analysis of R.C. Frame Subjected to Blast Loading using ABAQUS/CAE 6.14-1	Completed	2017	
Sanhita R Ganekar	Cost Comparison of R. C. C. and Prestressed Concrete Water Tanks	Completed	2016	
Manisha Malik	Diagrid Structural System For High Rise Steel Buildings	Completed	2016	
Mohammed Jaisal M	Comparative Study and Design of An Industrial Building By IS 800:2007, IS 800:1984 and IS 806:1968	Completed	2015	
Azharudheen KT	Effect of Floating Column In seismic response of Multistorey Building	Completed	2015	
Mr. Sharath Kumar	Effect of Opening in Shear Wall on Seismic Response of Frame Shear Wall Structure	Completed	2015	

Mr. Rashad M	Comparative Study of Static and Dynamic Analysis of Multi- Storey Building	Completed	2015	
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Admin. Responsibilities :

Position Held	Organization	From	To
Head, Department of Civil Engineering	NIT Jalandhar	August 2013	Jan 2016
TEQIP Coordinator (Institute Level)	NIT Jalandhar		
Estate Officer	NIT Jalandhar	April 1996	August 1996
Head, Department of Civil Engineering	NIT Jalandhar	April 1996	Jan. 2002
Head, Department of Civil Engineering	NIT Jalandhar	Sept. 2007	Aug. 2009
Professor In-charge Estate	NIT Jalandhar	1996	1997

Award and Honours :

Title	Activity	Given by	Year
Best Paper Award	Best Research Paper	Indian Concrete Institute Chennai, India	2012