

Curriculum Vitae

K. SURYA SHEKAR REDDY

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"To seek position in a research university/organization for effective utilization of my educational qualification and research expertise in the advancement of society and mutual growth."

EDUCATION

Examination	Specialization	Board/University (Institute)	Year	Score
PhD	Structural Engg.	IIT Hyderabad	pursuing	8.22 CGPA
Post Graduation (M.E)	CAD/CAM	OU (MVSR Engineering College)	2016	76.3 %
Graduation (B.Tech)	Mechanical Engg.	JNTUH (AVN Inst. of Engg. & Tech.)	2013	76.5 %
IPE	MPC	BIE (Word & Deed Junior College)	2009	82.9 %
SSC	10 th	BSE (Word & Deed High School)	2007	84.0 %

EXPERIENCE

Designation	Department	Board/University (Institute)	Period
Research Associate	Civil Engg.	IIT Hyderabad	Sep 2016 - July 2017
Asst. Professor	Mechanical Engg.	JNTUH (Holy Mary Inst. of Tech.)	Oct 2013 - Nov 2014

PUBLICATIONS

- K. S. S. Reddy, A. Rajagopal, J. N. Reddy (2021). **Modeling fracture in brittle materials with inertia effects using the phase field method**, *Mechanics of Advanced Materials and Structures*, 1-16. (Journal paper)
- S. Karthik, K. S. S. Reddy, A. A. Nasedkina, A. V. Nasedkin, A. Rajagopal (2022). **Phase Field vs Gradient Enhanced Damage Models: A Comparative Study**, *Procedia Structural Integrity*, 35, 173-180. (Journal paper)
- A. Gomathi K., A. Rajagopal, K. S. S. Reddy, B. Ramakrishna (2020). **Plasticity-based material model for concrete subjected to dynamic loadings**. *International Journal of Impact Engineering*, 142, 103581, 1-22. (Journal paper)

- **K. S. S. Reddy, A. A. Nasedkina, A. V. Nasedkin, A. Rajagopal (2021). Computational Modeling of Dynamic Fracture in Bimaterials using Phase-field Method, XXVIII Scientific Conference (SITO 2021), 313-316. (Conference paper)**
- **K. S. S. Reddy, A. Rajagopal (2021). Phase Field Implementation of Quasi-Static and Dynamic Brittle Fracture, 14th Virtual Congress WCCM & ECCOMAS 2020. (Conference paper)**
- **D. Pranavi, K. S. S. Reddy, A. Rajagopal, J. N. Reddy (2021). Crack and interface interaction under quasi-static and dynamic loading, Modeling and Computation in Vibration Problems, 1, 10-1 to 10-12. (Book chapter)**
- **K. S. S. Reddy, A. A. Nasedkina, A. V. Nasedkin, B. Saswata, A. Rajagopal (2018). Comparative Study on Progressive Damage Models for Composites, In: Parinov I., Chang SH., Gupta V. (eds) Advanced Materials. PHENMA 2017. Springer Proceedings in Physics, vol 207. Springer, Cham. (Book chapter)**
- **K. S. S. Reddy, A. Rajagopal, M. Madhavi (2016). Effect of Damage Modes and Fiber Volume Fraction on the Effective Properties of the Unidirectional Composites, Indian Society of Theoretical and Applied Mechanics (ISTAM). (Conference paper)**

FIELDS OF INTEREST

- Finite Element Analysis
- Fracture Mechanics
- Phase-field Modeling

TECHNICAL SKILLS

- **Programming languages** - FORTRAN, MATLAB, APDL and PYTHON.
- **Web designing languages** - HTML and CSS (Developed 4 websites).
- **Engineering softwares** - AUTOCAD, CATIA, ANSYS, ABAQUS and LSDYNA.
- **Additional softwares** - L^AT_EX, MS Office and Adobe CC.

PERSONAL SKILLS AND STRENGTHS

- **Skills** - Quick learner and Good computer handling skills.
- **Strengths** - Positive attitude, Hardworking, Determined and Passionate about work.

INTEREST AND HOBBIES

- **Interest** - Portrait sketching, Speedcubing, Juggling and Skating.
- **Hobbies** - Playing Badminton, Tennis and Table tennis. Freestyle jump roping.

PERSONAL DETAILS

- **Surname** - Komaravelly
- **Father's name** - K. Chalma Reddy
- **Mother's name** - K. Dhanamma Reddy
- **Date of Birth** - 5th September, 1990
- **Gender** - Male
- **Marital status** - Unmarried
- **Nationality** - Indian
- **Languages** - Telugu (Mother tongue), Hindi, English

REFERENCE

1. **Prof. Amirtham Rajagopal**

Dept. of Civil Engineering,
IIT Hyderabad, Kandi,
Sangareddy, Telangana-502284, India
E-mail: rajagopal@ce.iith.ac.in

DECLARATION

I hereby declare that the above mentioned information is true as of my knowledge.

Place: Hyderabad,

Date: February 21, 2023

(K. Surya Shekar Reddy)