



MAHARAJA AGRASEN COLLEGE

University of Delhi

Vasundhara Enclave, Delhi 110096

Curriculum Vitae

First Name	Sushil	Middle Name		Last Name	Yadav
Designation	Professor	Department	Mathematics		
Date of Birth	05-10-1973	Date of Joining	22-11-2002		
Residential Address	270, VPO, Rajokari New Delhi-110038 (Near Mohalla Clinic)				
Contact No.	9015650765	Email Id	syadav@mac.du.ac.in		

Educational Qualifications

Degree	Institution	Year	Details
Graduation	Sri Venkateswara College, Delhi University	1994	Mathematics
Post-Graduation	Department of Mathematics Delhi University	1996	Mathematics
M.Phil	Department of Mathematics Delhi University	1997	Mathematics
NET	Joint CSIR-UGC	1999	Mathematical Sciences
Ph.D.	Department of Mathematics Delhi University	2015	Mathematics
Specialization	Space Dynamics and Celestial Mechanics		

Career Profile

Organization/ Institution	Post Held	Adhoc/ Temp/ Permanent	From	To	Total Experience
ARSD College	Lecturer	Adhoc	29-8-2000	22- 11- 2022	2 years
Maharaja Agrasen College	Professor	Permanent	22-11-2002		20 years (as on 22-11- 2022)



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List of research papers published in peer reviewed/ UGC Listed/ Scopus indexed research journals

Title of the article / paper	Journal Name	ISSN	Issue / Vol No.	Year	Whether Peer reviewed/ UGC Listed/ Scopus Indexed Journal	Thomson Reuter Impact Factor
Resonance in a geocentric satellite due to Earth's equatorial ellipticity,	Astrophysics and Space Science, Springer	0004–640X	347	2013	SCI	1.885
Resonance in the earth-moon system around the sun including Earth's equatorial ellipticity	Astrophysics and Space Science, Springer	0004–640X	348	2013	SCI	1.885
Perturbations of a geocentric satellite synchronous with resonance	Astrophysics and Space Science, Springer	0004–640X	353 (2)	2014	SCI	1.885
Resonance in the perturbations of a synchronous satellite due to angular rate of the earth-moon system around the sun and the earth's rotation rate	International Journal of Advanced Astronomy, Science Publication Corporation	2312-7414	4(2)	2016	Peer Reviewed	----
Perturbed Robe's restricted problem of 2+2 bodies when the primaries form a Roche ellipsoid triaxial system	Journal of Dynamical Systems and Geometric Theories, TARU Publication	2169–0057	14 (2)	2016	MathSciNet, Zentralblatt	-----
Robe's restricted problem of 2+2 bodies with a Roche ellipsoid-triaxial system	Journal of Astronaut Science, Springer	2195–0571	65	2018	SCI	2.53
Resonance in the motion of a Geocentric Satellite due to	Applications and Applied Mathematics	1932-9466	14	2019	MathSciNet	-----



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Poynting Robertson Drag and Equatorial Ellipticity of the Earth	(AAM): An International Journal				Zentralblatt MATH	
Existence and Stability of Equilibrium Points in the Problem of a Geo-Synchronous Satellite including Earth's Equatorial Ellipticity	Non-linear Dynamics and Systems Theory. An International Journal of Research and Surveys	1813-7385	19 (4)	2019	SCOPUS	0.87
Resonance in the motion of a Geo-Centric Satellite due to Poynting Robertson Drag and Oblateness of the Earth	Non-linear Dynamics and Systems Theory. An International Journal of Research and Surveys	1813-7385	19 (4)	2019	SCOPUS	0.87
Thermo-solute natural convection with heat and mass lines in a uniformly heated and soluted rectangular enclosure for low Prandtl number fluids	International Journal of Thermal Sciences, (Elsevier)	1290-0729	148	2019	SCI	3.47
The unpredictability of the basins of attraction in photogravitational Chermnykh's problem	Astrophysics and Space Science (Springer)	0004-640X	365	2020	SCI	1.88
Magnetic field effect on double-diffusion with magnetic and non-magnetic nanofluids	International Journal of Mechanical Sciences, Elsevier	0020-7403	191	2020	SCI	1.885
Effect of non-uniform diameter and fractal dimension of Al ₂ O ₃ nanoparticle on double diffusion in tilted enclosure	Chaos, Soliton and Fractals Nonlinear Science, and Nonequilibrium and Complex Phenomena,	0960-0779	143	2020	SCI	3.764

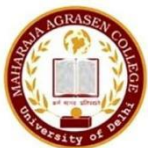


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	Elsevier					
Resonant Curve of geo-synchronous satellite including effect of earth's equatorial ellipticity and resistive force using perturbation technique	New Astronomy Elsevier	1384-1076	86	2021	SCI	1.058
Simulation by Heat and Mass Lines Techniques of Double-Diffusive Convection Under Magnetic field of Exponentially Heated and Solute Enclosure	International Journal of Applied Computational Mathematics Springer	23495103	7 (6)	2021	SCOPUS	1.77
Stability Analysis of Lagrangian points of geo-synchronous satellite including the resistive force and earth's equatorial ellipticity	New Astronomy Elsevier	1384-1076	97 1018 87	2022	SCI	1.058
Thermo-Diffusion MHD Convection in Enclosure Using Heat and Mass Lines Visualization Techniques	Journal of Applied Mathematics and Computational Mechanics	2299-9965	21 (2)	2022	MathsCinet	5.237
Effect of Earth's Equatorial Ellipticity on the Resonant Curve and Phase Portrait of Geo-centric Satellite Under the Gravitational Effect of the Earth-Moon-Sun System by using Unperturbed Solution	Few Body Systems An International Journal Springer	1384-1076	63 (2)	2022	SCI	1.844
Analysis of Resonant Curve in the Earth-Moon System under the effect of Resistive Force and Earth's Equatorial Ellipticity	Applications and Applied Mathematics (AAM): An	1932-9466	17 (1)	2022	MathSciNet Zentralblatt MATH	----



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	International Journal					
Resonant curve due to Perturbations in Geo-Synchronous Satellite including the Earth's Equatorial Ellipticity and Resistive Force	Astronomy Reports, Russian Academy Science, Springer	1063-7729	66	2022	SCI	1.172

List of Books (edited/ authored)

Title of the book	Author / Editor	ISBN	Year	Publisher
A Study of Resonance Problems in a Geo-Synchronous Satellite	First Author	978-620-0-30172-7	2018	LAP Lambert Academic Publishing Mauritius
Time-Frequency Analysis of Nonlinear Dynamical Systems: Wavelet Analysis of Nonlinear Dynamical Systems	Joint Author	978-620-0-31160-3	2019	LAP Lambert Academic Publishing Mauritius

List of Chapters in a book: N.A.

Title of the chapter	Title of the book	ISBN	Year	Publisher

List of Papers presented/ Invited Lecture/ Resource Person in conferences/ seminars/ workshops/ FDPs

Title of Paper/ Talk/ Subject	Conference/ Invited talk/ Resource Person	Title of conference/ seminar/ workshop/ FDP	Level (College/ State/ National/ International)	Year	Name of Organizer(s)
Periodically Forced Non-Linear	Conference	International Conference (online) on	International	2020	School of Computational and Integrative Sciences,



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Oscillations And Resonances in the Motion of Geo-Centric Satellite including the effect of Earth's Equatorial Ellipticity		Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020)			Jawaharlal Nehru University, New Delhi
Periodically Forced Non-Linear Oscillations and Resonances in the Earth-Moon System around the Sun including Earth's Equatorial Ellipticity	Conference	International e-Conference on Nonlinear Analysis and its Application (ICNAA 2020)	International	2020	Dept. of Mathematics, Dayanand Science College, Latur
Resonant Curve due to Periodically Non-Linear Forced Oscillations in a Geo-centric Satellite under the Gravitational Effect of the Sun, the Moon and the Earth including it's Equatorial Ellipticity Parameter	Conference	International Conference on Present Scenario of Mathematical Sciences (ICPSMS-2020-Virtual)	International	2020	Department of Mathematics, Karnatak University's Karnatak Arts College, Dharwad, Karnataka, India
Applied Mathematics and Career Perspectives	Resource Person	Webinar	College	2022	Placement Cell and Department of Mathematics



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					Smt. Aruna Asaf Ali Govt. P.G. College Kalka Affiliated to Kurukshetra University
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PhD Research Guidance

Name of the Scholar	Year of registration	Affiliating University	Status (Ongoing/ Thesis Submitted/ Awarded)
Durgesh Kushawaha	2014	Delhi University	Awarded
Mukesh Kumar	2018	Delhi Univerisy	Ongoing
Virendra Kumar	2018	Delhi University	Ongoing

Research projects:N.A.

Title	Period		Sanctioned Amount	Sponsoring/ Funding Agency
	From	To		

I certify that the information given above is correct and factual to the best of my knowledge.

Date:30-11-2022