

Faculty Details proforma for DU Web-site

Title Professo	r First Nar	ne	TEJ	Last Na	ame	SING	Н	Photograph		
Designation	PROFES			20.50 100						
Department		MATICS								
Address (Campus)Room No. 06, Faculty of Mathematical Delhi, Delhi-110007					al Scienc	es, Univ	versity of	met		
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Educational Qualifica	tions									
DEGREE	Institutio	on		Year Details						
D. Phil.	Universi	ty of Allah	abad, Al	lahabad	1983	space	es and	erse of some theorems about orbit and the Conner conjecture o some Serre classes		
M. Sc.	Universi	ty of Delhi	, Delhi		1973	Math	Mathematics			
B. Sc.	Universi Gorakhp	ty of Gora ur	khpur,	1971 Physics, Chen		ics, Chemi	istry, Mathematics			
Career Profile					1					
Institution	Designat	ion	Duration					Role		
	Pro	fessor	Decer	December 2001 Presen		t				
University of Delhi,		Reader		December 1988 De				aduate Teaching and h		
Delhi	R									
Linimonsian of Allaha	La			2001			Lindonom	ducto en d Doct Cao ducto		
University of Allaha- bad, Allahabad.	Le	Lecturer		January 1983 – December			Undergraduate and Post Graduat1988Teaching and Research			
University of Missour	ri, Visiting	g Assistant	Janua	January May 1988			Undergra	aduate Teaching and		
St. Louis, U.S.A.		Professor					Research			
Atarra P.G. College, Atarra.	Le	Lecturer Novembe		mber 1974	-		Undergraduate and Post Graduate Teaching, and Research			
Administrative Experience										
Organisation / Institution		Duration						Role		
		10 th October 2008 - 21 st July		2009 Head , Department		Departme	nt of Mathematics			
University of Delhi, Delhi-7		22 nd July 2012 - 19 th December 2012			Dean, Faculty of Mathematical Sciences, and Head, Department of Mathematics					

Research Interests / Specialization

ALGEBRAIC TOPOLOGY (Subfield:Transformation Groups)

Teaching Experience (Subjects/Courses Taught)

I have experience of more than forty years' of teaching Post-Graduate classes. During this period, I have given courses in Algebraic Topology, Point-set Topology, Field Theory, Module Theory, Representation of Finite Groups, and Real Analysis at different universities/colleges. In the first fourteen years of my teaching career, I have also taught Algebra, Calculus, Geometry and Linear Algebra to the Under-Graduate students.

Research Guidance

Two students have received Ph. D. degree and another four students M. Phil. Degree under my supervision. Presently, I have been guiding two students for Ph. D. degree.

Publications Profile

Research Publications

In Indexed/ Peer Reviewed Journals

- 1. "On an extension of localization theorem and generalized Conner conjecture," (with S. Deo and R. Shukla) Trans. Amer. Math. Soc. 269 (1982), 395 402; MR 83 a: 57051.
- 2. "On the converse of some theorems about orbit spaces," (with S. Deo) J. London Math. Soc. 25 (1982), 162 170; MR 83 k: 54039.
- 3. "Non existence of odd periodic maps on certain spaces without fixed points," Bull. Austral. Math. Soc. 32 (1985), 389 397; Zbl. Math. 572 Mai 1986: 57020.
- 4. "The eigenvalues of the endomorphisms induced in cohomology by a self equivariant map," Proc. Math. Soc. B.H.U. vol. 2 (1986), 99 101; MR 89e : 57049.
- 5. "Z_p-action on spaces of cohomology type (a, 0)," (with R. Dotzel) Proc. Amer. Math. Soc. 113 (1991), 875 878; MR 92 b: 57046.
- 6. "Cohomology ring of the orbit spaces of certain free Z_p- actions," (with R. Dotzel) Proc. Amer. Math. Soc. 123 (1995), 3581 3585; MR 96a : 57082.
- 7. "Some local properties of fuzzy topological groups," (with P. Jha) Bull. Cal. Math. Soc. 87 (1995), 441-448, MR 97d: 54010.
- 8. "Fuzzy topological groups," (with P. Jha) Bull. Cal. Math. Soc. 91 (1999), 351 358, MR: 2001 k 22005.
- 9. "The cohomology rings of the orbit spaces of free transformation groups of the product of two spheres," (with R. Dotzel and S. Tripathi) Proc. Amer. Math. Soc. 129 (2001), 921-930, MR: 2001 f 57037.
- "On the cohomology of orbit space of free Z_p-actions on lens spaces," (with H. K. Singh) Proc. Indian Acad. Sci. (Math. Sciences) 117 (2007) 287-292.
- 11. "Fixed point free involutions on cohomology projective spaces," (with H.K.Singh) Indian J. Pure and

Applied Math. 39(32) (2008) 285-291.

- 12. "On Z2 and S¹ free actions on spaces of cohomology type (a,b)," (with Pedro L.Q. Pergher, H.K.Singh) Houston Journal of Math. 36 (2010) 137-146.
- 13. "The cohomology of orbit spaces of certain free circle group actions," (with H.K. Singh) Proc. Indian Acad. Sci. (Math. Sciences) 122 (2012) 79-86.
- 14. "Circle group action on the product of two projective spaces," (with J. Kaur and H.K. Singh) Topology Proceedings 48 (2016) 163-172.
- 15. ``A Borsuk–Ulam type theorem for the product of a projective space and 3-sphere'' (with S. K. Singh, H. K. Singh) Topology and its Applications 225 (2017) 112–129.
- 16. "Borsuk-Ulam Theorems and Their Parametrized Versions for F*P*[^]*m* × S[^]3" (with S. K. Singh, and H. K. Singh), Bulletin of the Brazilian Mathematical Society, New Series (2017) DOI 10.1007/s00574-017-0040-1.

Books / Monographs

Year of Publication	Title	Publisher	Co-Author				
2013	Elements of Topology	Taylor and Francis, USA	None				

Excerpts of reviews on the book



PARTICIPATE. INVESTIGATE. EDUCATE.

The overall tone and level of sophistication in this book is roughly comparable to that of Munkres, and is considerably higher than in Simmons' text. The overall writing style is, however, sufficiently clear that there is no question of the suitability of (at least much of) this text for undergraduates. The pedagogical value of the book is also enhanced by the presence of quite a number of exercises of varying levels of difficulty (solutions to which are not provided), and also a substantial number of detailed examples in the text itself. This text

presents a considerable amount of material in a clear and accessible way, and should be carefully considered for textbook adoption by anybody teaching a course in point-set topology.

[Reviewed by Mark Hunacek, on 11/19/2013]



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MR3077568 Reviewed

Singh, Tej Bahadur(6-DELHI)

Elements of topology. *CRC Press, Boca Raton, FL,* 2013. xxii+530 pp. ISBN: 978-1-4398-7195-9

The book under review covers in an introductory way the most usual topics in general topology as well as other less standard ones including some initial topics of algebraic topology like the fundamental group and covering spaces. The book is suitable for self-study and as a textbook for a good course in general topology. I really enjoyed reading the book and I will use it in my future courses. I highly recommend this textbook because of its good didactic presentation of the material as well as the wide variety of topics studied.

This book deserves a warm welcome on the grounds of both design and execution.

Reviewed by Fernando Hernández-Hernández

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Singh, Tej Bahadur * 1273.54001

Elements of topology. Boca Raton, FL: CRC Press (ISBN 978-1-4398 7195-9/hbk). xxi, 530 p. \$ 63.99 (2013).

The book under review provides an introduction to the basics of general topology

and (nonhomological) algebraic topology. Each section ends with a carefully composed list of related exercises, and the entire text is interspersed with numerous instructive, directly related examples and counterexamples as well as with many luminating figures and diagrams. Together with the utmost lucid, detailed and didactically wellbalanced presentation of the material, these special features make the book a suitable source for self-study, on the one hand, and for a profound course in topology on the other. Both students and instructors can profit a great deal from this excellent primer, which shows the author's rich teaching experience just as much as his expository skills throughout the book.

Reviewer: Werner Kleinert (Berlin)