


Department of Applied Mechanics

DEPARTMENT OF APPLIED MECHANICS

i.	Name Dr. Mukund M .Mahajan																													
ii.	Area of Specialization : Analysis and design of R.C.Structures, tanks and machine foundations																													
iii.	Prominent journal paper publications(6 numbers)																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">SN</th> <th style="width: 35%;">Title of Papers/Authors</th> <th style="width: 35%;">Publication Details</th> <th style="width: 25%;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Design of thrust blocks with help of computer for pipe line M.M.Mahajan and et.al.</td> <td>Journal of Indian Water Works Association, Vol. XXV, January-March 1993, pp 133-139.</td> <td style="text-align: center;">Journal</td> </tr> <tr> <td style="text-align: center;">2</td> <td>National River Linking M.M.Mahajan and et.al.</td> <td>Journal of Indian Water Works Association, Vol. XXXV, October-December 2003, pp 247-257.</td> <td style="text-align: center;">Journal</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Object oriented Programming for maintenance free Construction M.M.Mahajan</td> <td>Journal New Building Materials and Construction World December 2004 Volume 10 Issue 6 pp 38- 43</td> <td style="text-align: center;">Journal</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Effective classroom Lecture Planning in changing scenario M.M.Mahajan</td> <td>ISTE Journal, Volume 27 NO 4 October – December 2004 Pp 115-118</td> <td style="text-align: center;">Journal</td> </tr> <tr> <td style="text-align: center;">5</td> <td>National River Linking M.M.Mahajan and et.al.Note It is a reprint with permission</td> <td>Civil Engineering and Construction Vol May 2004 ,pp26-34</td> <td style="text-align: center;">Journal</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Thrust resistant design for above Ground pipeline with genetic algorithm approach</td> <td>Journal of Indian Water Works Association, , 2009 , pp 133-139.</td> <td style="text-align: center;">Journal</td> </tr> </tbody> </table>		SN	Title of Papers/Authors	Publication Details	Remarks	1	Design of thrust blocks with help of computer for pipe line M.M.Mahajan and et.al.	Journal of Indian Water Works Association, Vol. XXV, January-March 1993, pp 133-139.	Journal	2	National River Linking M.M.Mahajan and et.al.	Journal of Indian Water Works Association, Vol. XXXV, October-December 2003, pp 247-257.	Journal	3	Object oriented Programming for maintenance free Construction M.M.Mahajan	Journal New Building Materials and Construction World December 2004 Volume 10 Issue 6 pp 38- 43	Journal	4	Effective classroom Lecture Planning in changing scenario M.M.Mahajan	ISTE Journal, Volume 27 NO 4 October – December 2004 Pp 115-118	Journal	5	National River Linking M.M.Mahajan and et.al.Note It is a reprint with permission	Civil Engineering and Construction Vol May 2004 ,pp26-34	Journal	6	Thrust resistant design for above Ground pipeline with genetic algorithm approach	Journal of Indian Water Works Association, , 2009 , pp 133-139.	Journal
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Other prominent publications (Conf.)

1.International conference 02

SN	Title of Papers/Authors	Publication Details	Remarks
1	Simplified Approach for Mix Design of Steel Fibre Fly Ash Concrete Composite M.M.Mahajan and et.al.	2 nd Asia Pacific Specialty Conference on FRC Singapore,27- 29 August1999 pp133	International Conference
2	Reusing Waste Water of Nagpur City By Decentralised Sewerage Systems M.M.Mahajan and et.al.	8 th International Conference on Water conservation and reuse of waste water 13and 14 Sep2003 pp 59-69	International Conference

2.National Conferences 12

SN	Title of Papers/Authors	Publication Details	Remarks
1	Strength and Durability Indicator of Fly Ash Blended Concrete M.M.Mahajan and et.al.	National Symposium on Power Plant Fly ash Utilization and waste Heat Recovery organised by Usmania University, Hyderabad.,1995, PP 83-88	National Symposium
2	Analysis of Non-prismatic Vertical Wall of Water Tank by Finite Difference Method M.M.Mahajan and et.al.	Proceedings of workshop on Computer Applications in Water Supply System 1998, pp44-52	Workshop
3	Study of High Volume Fly Ash Concrete M.M.Mahajan and et.al.	Proceedings of Fly Ash Disposal and deposition Beyond 2000AD	Proceedings
4	Transaction Analysis M.M.Mahajan	Proceeding of MBA course Ambedkar College Nagpur 1999	Invited Paper
5	Rational Method of Mix Design of Fly Ash Concrete for Early Strength Development M.M.Mahajan and et.al.	Proceedings of National Seminar on Fly Ash Characterisation and it's Geo technical Application 30 August 1999, Bangalore,pp 101-106	National Seminar
6	Large Size Prestressed Concrete Pipe Line Operation and Maintenance M.M.Mahajan and et.al.	National Seminar on Operation and Maintenance of Water Supply Schemes, 25-26 December. 1999,Amarawati, pp 66-70	National Seminar
7	Computer Aided Design of Anchor Blocks M.M.Mahajan and et.al.	Water Supply Structures Bulletin of IWWA Nagpur Centre Volume 2 no2 July 2001 page 2-5	Bulletin
8	Wind Response of RCC Square Deep Bins M.M.Mahajan and et.al.	Proceedings of II National Conference on Wind Engineering 12-14 Feb2004	National Conference
9	Object Oriented Planning for Preventive Maintenance M.M.Mahajan	Proceedings of ISST Program on M and R of Civil Engineering Structures and systems March 2003	Proceedings of ISTE Program
10	Design of high damping base isolator for high rise building M.M.Mahajan and et.al.	National conference on High Rise Building , IIT Roorkee,pp503-512, October 2006	National conference
11	Base Isolation an innovative aseismic design approach M.M.Mahajan and et.al.	National conference on Innovations in Engineering and Technology, Gondia,pp IV/14 July 2006	National conference
12	Selection of Appropriate Shape for Concrete Pier of Flyovers M.M.Mahajan and et.al.	National conference on Recent advances and Trends in Civil Engineering ,pp 174-179 March 2007	National conference

Ph D research students guided, research topics, brief statement of achievements, photo of PhD students
Ph.D completed- 01

Sr.No.	Name of Candidate	Rg. Year	Title of work	Institute/ University	Remark
1	Mr.Ulhas Naik	2004	Operation Research Application In Design Implementation And Operation Of Water Supply System	VNIT, Nagpur	It is a Joint Research work with Civil Department and Dr.Gupta is guide from Civil. Ph. D is awarded

Ongoing Ph.D - 01

1	Mayuri Chandak	2009	Study Of retaining wall under Dynamic loading	VNIT, Nagpur	The work is in progress
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M-Tech Projects Supervised - 47 numbers

Ph D research students guided, research topics, brief statement of achievements, photo of PhD students
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i.	Consultancy research projects, brief statement of achievements More than 50 projects (Analysis, design and checking of designs)
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i.	Other capabilities (administrative and other achievements) <ol style="list-style-type: none">1. Head of the Department (one term)2. Incharge, Structural Analysis Laboratory3. Coordinator, Department M Tech Admissions (2 times)4. Department M Tech Coordinator(2 times)5. Professor In-charge for III cell6. Chairman grievance committee7. Member of the Revision committee for IS: 2950 Code for machine foundation8. President For Rajbhasha Prerana Editorial committee 2012
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