

水利机械(0828Z2)

(Hydraulic Engineering Machinery)

学科门类:工学(08) 一级学科:农业工程(0828)

一、学科简介

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二、培养目标

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9 - 11	00D0001	First Foreign Language	48	2						
	66D0001	Marxism in Contemporary China	36	2			/			
	88D0001	Applied Functional Analysis	48	3						2 - 4
	88D0002	Modern Methods in Partial Differential Equations	32	2						
	88D0003	Random Differential Equations	32	2						
	88D0005	Reliability Analysis	32	2						
	88D0006	Artificial Neural Networks	32	2						
	88D0007	Dynamical Systems Chaos and Fractals	48	3						
	09D0206	Special Topics on Machinery of Water Resources	16	1		/	/			
	09D0101	Dredging Equipment and Technology	32	2		/	/			2
	09D0201	Modern Machinery Design Theory and Method	32	2		/	/			
09D0202	Mechanical and Electrical System Analysis	32	2		/	/				
09D0203	Modern Signal Processing Technology and Application	32	2		/	/				
	Second Foreign Language	48	2							
4	66D0002	Selected Readings in Marxist classics	18	1			/			
	09D0204	Machine Dynamics	32	2		/	/		2	
	09D0205	Robotics And Intelligent Control	32	2		/	/			
	09D0301	Advanced Fluid Mechanics	32	2		/	/			
	09D0302	Nonlinear Problems And Finite Element Method	32	2		/	/			
	09D0401	Interface Behavior Of Material Joining	32	2		/	/			
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	99D0103									
	99D0101									
	99D0102									

本学科推荐阅读的重要书目、专著和学术期刊

- 1 . 2013
- 2 . 2006
- 3 . 1996
- 4 . 2006
- 5 . 2007
- 6 . 2007
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- 11 P. W. Chris tensen A. Klarbring An Introduction to Structural Optimization Springer 2009.
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- 13 K. K. Choi Nam H. Kim. Structural Sensitivity Analysis and Optimization 1 Linear Systems. Springer 2005
- 14 K. K. Choi Nam – Ho Kim. Structural Sensitivity Analysis and Optimization 2 Nonlinear Systems and Applications Springer 2010
- 15 Mark S. Gockenbach. Understanding And Implementing The Finite Element Method. SIAM 2006
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- 17 Karl Johan Astrom Richard M. Murray Feedback Systems An Introduction for Scientists and Engineers Princeton University Press 2010
- 18 Hughes T. J. R. Cottrell J. A. Bazilevs Y. Isogeometric analysis CAD finite elements NURBS exact geometry and mesh refinement J . Computer Methods in Applied Mechanics and Engineering. 2005 194 39 – 41 4135 – 4195.
- 19 Cottrell J. A. Hughes T. J. R. Reali A. Studies of refinement and continuity in isogeometric structural analysis J . Computer Methods in Applied Mechanics and Engineering. 2007 196 41 – 44 4160 – 4183.
- 20 Seo Yu – Deok Kim Hyun – Jung Youn Sung – Kie. Shape optimization and its extension to topological design based on isogeometric analysis J . International Journal of Solids and Structures. 2010 47 11 – 12 1618 – 1640
- 21 Wall Wolfgang A. Frenzel Moritz A. Cyron Christian. Isogeometric structural shape optimization J . Computer Methods in Applied Mechanics and Engineering Computer Methods in Applied Mechanics and Engineering. 2008 197 33 – 40 2976 – 2988.
- 22 Qian Xiaoping. Full analytical sensitivities in NURBS based isogeometric shape optimization J . Computer Methods in Applied Mechanics and Engineering Computer Methods in Applied Mechanics and Engineering. 2010 199 29 – 32 2059 – 2071.
- 23 Ha Seung – Hyun Choi K. K. Cho Seonho. Numerical method for shape optimization using T – spline based isogeometric method J . Structural and Multidisciplinary Optimization Structural and Multidisciplinary Optimization. 2010 42 3 417 – 428.
- 24 Uhm Tae – Kyoung Youn Sung – Kie. T – spline finite element method for the analysis of shell structures J . International Journal for Numerical Methods in Engineering. 2009 80 4 507 – 536.
- 25 Structural Multidisciplinary Optimization Springer
- 26 Journal of Mechanical Design ASME
- 27 Journal of Vibration and Acoustics ASME
- 28 ASME Journal of Mechanical Engineering ASME
- 29 IEEE Control Systems Magazine IEEE
- 30 IEEE Robotics & Automation Magazine IEEE

31	IEEE Transactions on Automatic Control	IEEE	
32	IEEE Transactions on Automation Science and Engineering	IEEE	
33	IEEE Transactions on Control Systems Technology	IEEE	
34	IEEE Transactions on Fuzzy Systems	IEEE	
35	IEEE – Asme Transactions on Mechatronics	IEEE	
36	IEEE Transactions on Industrial Electronics	IEEE	
37	IET Control Theory and Applications	IET	
38	JOURNAL OF HYDRAULIC RESEARCH	International Association for Hydraulic Research	
39	JOURNAL OF HYDRAULIC ENGINEERING	American Society of Civil Engineers	ASCE
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