

艰苦朴素 实事求是
严格要求 勇于探索

专业学位博士研究生培养方案 (2022版)



河海大学研究生院

二〇二二年六月

2022 版 博 究 培 方 案 明

2022

1.

2.

3.

4

8

14-16
3-5 3
8 2
1 6
60 75 70 60

博 究 培 过 程 间 安 排 表

1			1
2			2
3			
4			8 1 20
5			
6			
7			
8			
9			
10			
11			
12		/	
13			1
		CSC	
			3

	(085900)	1
与	(085700)	24

085900

Civil and Hydraulic Engineering

1.

2.

3.

4

8

3

1

2

60

75

8

6

5

16

70

60

木 利 博 究 课 程

	22P660001	Marxism in Contemporary China	36	2			
	22P000001	Scientific English	48	2			
	22P550101	Academic Standards and Thesis Writing Instruction	16	1		/	
	22P550102	Special Topics on Civil and Hydraulic Engineering	16	1		/	
	22P010101	Multi-objective Theory of Water Resources Systems	32	2		/	/
	22P010102	Distributed Hydrological Model	32	2		/	/
	22P010103	Urban Water Engineering Planning	32	2		/	/
	22P020101	Advanced Sedimentation and Engineering Applications	32	2		/	/
8	22P020102	Fluidflow and Coupled Thermo-hydro-mechanical-chemical (THMC) Processes in Fractured Porous Media	32	2		/	/
	22P020103	Safety Monitoring Theory and Its Application for Hydraulic Structures	32	2		/	/
	22P020104	Dynamics Analysis and Model Experiment of Hydraulic Structures	32	2		/	/
	22P020105	Fluid Transients II	32	2		/	/
	22P020106	Water Resources and Hydropower System Planning and Dispatching	32	2		/	/
	22P020107	Operation and Management of Water Conservancy and Hydropower	32	2		/	/
	22P030101	Advanced Coastal Dynamics	32	-\$			

	22P030102	Advanced Theory and Method of Structure Analysis	32	2		/	/			
	22P040101	Modern Technology in Geotechnical Engineering	32	2		/	/			
	22P040102	Advanced Reinforced Concrete Structures	32	2		/	/			
	22P040103	Anti-seismic and Prevention of Lifeline Engineering	32	2		/	/			2.
	22P040104	Long-span Steel Bridges	32	2		/	/			
	22P050101	Theory and Technology of Water Pollution Control	32	2			/			
	22P050102	Water Treatment Membrane Material and Process Technical Principle	32	2		/	/			
	22P110101	Modern Theory of Irrigation and Drainage	16	1		/	/			3.
	22P110102	Modern Agricultural Soil and Water Environment	16	1		/	/			
	22P110103	Irrigation and Drainage Machinery Engineering	16	1		/	/			
		*	32	2		/	/	/		
5	22P660002	Special Topic on Science and Engineering Ethics	16	1			/			
	22P020108	Smart Water Conservancy and Artificial Intelligence	32	2	春		/			
	22P140101	Multivariate Statistical Analysis	32	2						
	22P150101	Theory and Method of Project Management	32	2			/			2
	22P150102	Management System Engineering	32	2						
1										
2										

1	.	[M].	2002.
2	.		[M].
	2019.		
3	.		[M].
2012.			
4	.		[M].
2007.			
5	.		[M].
	2011.		
6	.		[M].
	2016.		
7	.	[M].	2009.
8	.	[M].	
2010.			
9	.	[M].	
2010.			
10	.	[M].	2008.
11	.	[M].	2017.
12	.	[M].	
2008.			
13	.		
	[M].	2017.	
14	.	(2) 8	[M].
	2013.		
15	.		[M].
	2017.		
16	.		[M].
	2011.		

17	.	[M].	2009.
18	.	.	
	[M].	2006 12	
19	.	[M].	2008.
20	.	.	
	[M].	2016.	
21	.	.	[M].
	2006.		
22	.	[M].	2017.
23	.	[M].	2011.
24	.	[M].	1984.
25	.	[M].	2003.
26	.	[M].	2019.
27	.	[M].	1995.
28	.	.	[M].
	2004.		
29	.	.	[M].
	1995.		
30	.	[M].	2007
31	.	[M].	2013.
32	.	.	[M].
	2016.		
33	.	[M].	2011.
34	.	[M].	
	2009.		
35	.	[M].	2016.
36	.	.	(2) [M].
	2019.		
37	.	.	[M].
	2015.		

38	.		[M].	
	2010.			
39	.			
[M].		2020.		
40	.		[M].	
	2011.			
41	.		[M].	
	2020.			
42	.		[M].	
	2008.			
43	.		[M].	
	2020.			
44	.		[M].	
2020.				
45	.	[M].		2011.
46	.		[M].	
	2012.			
47	.	[M].		2001.
48	.		2 [M].	
	2008.			
49	.		[M].	
	2016.			
50	.	[M].		2008
51	.		[M].	
	2010.			
52	.	[M].		2020.
53	.		[M].	
	2022.			
54	.	[M].		2006.
55	.		[M].	

2011.				
56	.		[M].	
2009.				
57	.		[M].	
2011.				
58	.	[M].		2005.
59	.		[M].	2011.
60	.	[M].		2005.
61	.	[M].		2005.
62	.		[M].	
2016.				
63	.		[M].	2004.
64	.		[M].	
2007.				
65	.			[M].
		2009.		
66	.	[M].		2009.
67	.	[M].		2003.
68	.			[M].
		2012.		
69	.		[M].	
2001.				
70	.	[M].		2007.
71	.		[M].	
2017.				
72	.		[M].	
2021.				
73	.		[M].	
2012.				
74	.		[M].	

MIBI

2022

2002

75 [M] 2017.

76 [M] 89-94.

77 3 [M].

2013.

78 [M].

2015.

79 () [M]. 2019.

80 [M]. 2014.

81 [M].

2005.

82 2]. [M]. o 2017.

83 [M]. 2016.

84 [M]. "

2010.

85 [M]. 0000.

86 .. n

97	.	[M].	2001.
98	.	[M].	2006.
99	.	[M].	2019.
100			
101	.	[M].	2012.
102			

118	.	[M]	2003.
119	.		[M].
120	.	[M].	2003.
121	.	[M].	2009.
122	.	[M].	2012.
123	.		
[M].		2018.	
124	.	[M].	2000.
125	. A2/O		[M].
2009.			
126	.	[M].	2003.
127	.		[M].
1985.			
128	.	[M].	2007.
129	.		
[M].		2012.	
130	.	[M].	2007.
131	.	[M].	
2005.			
132	.	[M].	2002.
133	.	[M].	2009.
134	.	[M]. GÜ	2005.
135	[M].	2013.	
136	.		[M].
2013.			
137	.		

- 139 . [M].
- 2017.
- 140 . [M]. 1999.
- 141 . [M]. 2005.
- 142 [M]. 2000.
- 143 GB/T50123-2019 [S]. 2019.
- 144 . [M].
- 2006.
- 145 . [M]. .2010.
- 146 . —CFD [M].
- 2004.
- 147 . [M].
- 2016.
- 148 . [M].
- 2017.
- 149 . [M].
- 2015.
- 150 . [M].
- 2010.
- 151 C. Jaeger. [M].
- 1987.
- 152 . [M].
- 2013.
- 153 . () [M].
- 2007.
- 154 . [M]. 2011.
- 155 . [M]. 2020.
- 156 . [M].
- 1999.
- 157 . [M]. 2020.

158	.	[M].	2017.
159	.	[M].	
2010.			
160	.	[M].	2012.
161	.	/	
[M].		2019.	
162	.	[M].	2016.
163	.	[M].	2000.
164	.	[M].	2000.
165	.	[M].	
2016.			
166	.	[M].	2007.
167	.	[M].	
		2013.	
168	.	[M].	2016.
169	.	[M].	2013.
170	.	[M].	
2006.			
171	.	[M].	
2017.			
172	.	[M].	2005.
173	.	[M].	2003.
174	.	[M].	
		2013.	
175	.	[M].	2016.
176	.	[M].	1990.
177	.	[M].	2003.
178	.	[M].	2006.
179	.	[M].	

- 2013.
- 180 . [M].
- 2018.
- 181 . [M].
- 2012.
- 182 . [M]. 2005.
- 183 . [M].
- 2014.
- 184 . Copula [J].
- 2018.
- 185 . [J].
- 2019 50(11) 1311-1317.
- 186 . — .
- [J]. 2016 27(3) 327-348.
- 187 . [Z]. 2008.
- 188 .
- JTG 3370.1-2018 [S]. 2019.
- 189 . [M].
- 2012.
- 190 .
- [M]. 2007.
- 191 . CJJ/T 8-2011. [S].2011.
- 192 T/CHES 21-2018
- [S].2018.
- 193 [M]. 2000.
- 194 [M]. 2000.
- 195 [M]. 2000.
- 196 [M]. 2000.
- 197 [M]. 2000.
- 198 [M]. 2000.

199	[M].	2000.
200	[M].	2000.
201	. SL 52-2015.	
[S].2015.		
202	SL 706-2015	
203	SL 721-2015	
204	SL/T789-2019	
205		
SL754-2017		
206		
SL520-2014		
207	SL73.1-2013.	SL73.1-95
208	SL282-2018	
209	SL319-2018	
210	SL274-2001	
211	GB51247-2018	
212	SL744-2016	
213	.	[M].
2008.		
214	.	[M].
2009.		
215	.	[] [M].
2011.		

216

.

3

- Water Resources Research 55. <https://doi.org/10.1029/2019WR025477>.
- 230 John N. Newman Marine Hydrodynamics[M].The MIT Press 1999.
- 231 J Bear. [M].
1983.
- 232 Kirkby. M. J. Hillslope Hydrology[M].Chichester John Wiley & Sons
1978.
- 233 Mays L W. Water Resources Sustainability[M].New York McGraw-Hill
2007.
- 234 Milansonka Vaclav Hlavac Roger Boyle.
3 [M]. 2011
- 235 Mujumdar P P. Kumar D K. Floods in a Changing Climate Hydrologic
Modeling[M].Cambridge University Press 2018.
- 236 Paul J. Wood David M. Hannah Jonathan P. Sadler
[M].
2009.
- 237 P. [M].
2003.
- 238 Robert G. Dean Robert A. Dalrymple. Coastal Processes with
Engineering Applications[M].Cambridge University press 2004.
- 239 Robert T. Hudspeth. Waves and Wave Forces on Coastal and Ocean
Structures[M].Word Scientific press 2006.
- 240 Singh S K. Dhanya C T. Hydrology in a Changing World Challenges in
Modeling[M].Springer 2019.
- 241 SINGH V P. Handbook of Applied Hydrology[M].New York McGraw
Hill 2017.
- 242 Singh V P. Computer Models of Watershed Hydrology[M].Water Resources
Publications 1995.
- 243 Tung Y K Yen B C Melching C S. Hydrosystems Engineering
Reliability Assessment and Risk Analysis.[M].McGraw-Hill Chemical Engineering
2005.

- 244 Vieux B E. Distributed Hydrologic Modeling Using GIS[M].Springer
2016.
- 245 Wubbo Boiten.Hydrometry(3rd Edition).[M].Leiden CRC Press/balkema
2008.
- 246 Wylie E B Streeter V L Suo L. Fluid Transients in
Systems[M].Englewood Cliffs NJ Prentice Hall 1993.
- 247 Willem T Bakker. Coastal Dynamics[M].World Scientific Publishing 2013.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	Water Resources Research
64	Earth-Science Reviews
65	Journal of Hydrology
66	Water Research
67	Applied Energy Elsevier Publishing
68	Journal of the Cleaner Production
69	Environmental Science&Technology
70	Chemical Engineering Journal
71	Environmental Pollution
72	Science of the Total Environment
73	Energy Elsevier Publishing
74	Waste Management
75	International Journal of Rock Mechanics and Mining Sciences
76	Chemosphere
77	Rock Mechanics and Rock Engineering
78	Geoderma
79	Agricultural and Forest Meteorology
80	Precision Agriculture
81	Soil Tillage Research

- 82 Coastal Engineering
- 83 Geophysical Research Letters
- 84 Agricultural Water Management
- 85 Advances in Water Resources
- 86 Plant and Soil
- 87 Geomorphology
- 88 Ocean Engineering
- 89 Journal of Fluid Mechanics
- 90 Science China Technological Science
- 91 Water Resources Management
- 92 Scientia Horticulturae
- 93 Journal of Geophysical Research
- 94 Journal of Sedimentary Research
- 95 Journal of Water Resources Planning and Management American
Society of Civil Engineers
- 96 Applied Ocean Research
- 97 Irrigation Science
- 98 Estuarine Coastal and Shelf Science
- 99 International Journal of Sediment Research
- 100 Journal of Hydraulic Engineering
- 101 Groundwater John Wiley & Sons
- 102 Journal of Hydrodynamics
- 103 Water Air & Soil Pollution
- 104 Journal of Hydro-Environment Research
- 105 Continental Shelf Research
- 106 Soil Science Society of America Journal
- 107 Journal of Waterway Port Coastal and Ocean Engineering
- 108 Water Science & Technology
- 109 Journal of Irrigation and Drainage Engineering
- 110 Journal of Soil and Water Conservation

- 111 Desalination and Water Treatment
- 112 China Ocean Engineering
- 113 Environmental Science and Technology
- 114 Water Science and Engineering
- 115 Journal of Ocean University of China
- 116 Journal of Coastal Research
- 117 Advances of Hydro-Environment Res
- 118 American Association of Petroleum Geologists
- 119 Environmental Science Europe
- 120 Soil Biology & Biochemsitry

085700

(Resources and Environment)

1.

2.

3.

4

8

				16
		8		5
3	1		2	
		6		
				70
60	75			60

环境 博 究 课 程

22P660001	Marxism in Contemporary China	36	2				
22P000001	Scientific English	48	2				
22P550101	Academic Standards and Thesis Writing Instruction	16	1		/		
22P550103	Special Topics on Resource and Environment	16	1		/		
22P050201	Watershed Water Quality Model and Application	32	2		/	/	
22P050202	Ecological System Theory	32	2		/	/	1
22P050101	Theory and Technology of Water Pollution Control	32	2		/	/	2 3
22P050203	Solid Waste Management and Disposal	32	2		/	/	
22P050204	Water Environment Protection and Bioremediation	32	2				

5												
	22P660002	Special Topic on Science and Engineering Ethics	16	1		/	/					
	22P150101	Theory and Method of Project Management	32	2		/	/					2
	22P140101	Multivariate Statistical Analysis	32	2								
	22P100105	Theory and Method for Geo-body Stability	32	2		/	/					
22P100106	Computation and Analysis of Spatiotemporal Big Data	32	2		/	/						
1												
2												

() 参考目、

1. . [M]. 2000.
 2. . [M]. 1998.
 3. . [M].
2010.
 4. . [M].
2007.
 5. . [M].
2011.
 6. . [M].
2004. p,
 7. . [M]. I
2002.
 8. . [M]. 2012.
 9. . [M]. 2017.
 10. . [M].
2006. ⑥
 11. . [M].
2006. Δ
ts
- 0 - ⑧ ⑨ *

Δ

20.	.	[M].	2004.
21.	.	[M].	2019.
22.	.	[M].	2007.
23.	.	[M].	1999.
24.	.		

38. . / () [M].
2018.
39. . [M].
2014.
40. . [M]. 2018.
41. . [M].
2021.
42. . [M]. 2021.
43. . [M].
2017.
44. . [M]. 2019.
45. . [M]. 2010.
46. . [M]. 2013.
47. . [M]. 2020.
48. . Wastewater Treatment Engineering New perspective
Innovation and Application[M]. 2020.
49. . Ecological Restoration Theory and Technology[M].
2021.
50. . Environment Engineering[M]. 2015.
51. . Water Pollution Control Engineering[M].
2019.
52. . [M].
2021.
53. . [M].
2020.
54. . [M]. 2020.
55. . [M].
2020.
56. . [M]. 2020.

57.	.		[M].	
2021.				
58.	.	[M].		2005.
59.	.	()	[M].	2018.
60.	.			[M].

94. . / [M].
2019.
95. . [M]. 2017.
96. . [M]. 2018.
97. . [M].
- 2020.
98. . [M].
2020.
99. . GBSAR [M]. 2021.
100. . () [M].
2008.
101. . [M]. 2001.
102. . [M]. 2003.
103. . [M]. 2006.
104. . () [M].
2017.
105. . [M].
2017.
106. . —
[M]. 2020.
107. . GPS [M].
2006.
108. . “3S” [M]. 2007.
109. . [M]. 2006.
110. . [M].
2001.
111. . [M]. 2019.
112. . [M]. 2020.
113. . [M]. 2019.

114.	.		[M].
2019.			
115.	.		[M].
2020.			
116.	.		[M].
2018.			
117.	.	[M].	2013.
118.	.		[M].
2015.			
119.	.	[M].	
2014.			
120.	.		[M].
2018.			
121.	.		[M].
2020.			
122.	.		[M].
2017.			
123.	.	[M].	2020.
124.	.	[M].	2001.
125.	.		[M].
2022.			
126.	.	[M].	2017.
127.	.	[M].	2011.
128.	.	[M].	2020.
129.	.		[M].
2020.			
130.	.		[M].
2013.			
131.	.	[M].	2009.

132. [M].
2007.
133. [M]. 2008.
134. (SL 431-2008)
135. (SL/T 800-2020)
136. (SL/T 4-2020)
137. (SL109-2015)
138. (HJ 91.2-2022)
139. (GB 5084-2021)
140. (HJ 945.3-2020)
141. (SL/T 793-2020)
142. (SL63-94)
143. (NY/T 3821.2-2020)
144. (GB 4284-2018)
145. (GB 15618-2018)
- ().
146. (GB/T 39569-2020)
147. (GB/T 39571-2020)
148. (GB/T-39420-2020)
149. James B. Campbell Randolph H. Wynne. Introduction to Remote Sensing
Fifth Edition[M]. Guilford Guilford Publications 2011.

150. Xianhu Wei. The Geography and Remote Sensing Analysis of Sri Lanka[M]. Berlin Springer 2022.
151. Simon Jones Karin Reinke. Innovations in Remote Sensing and Photogrammetry[M]. Berlin Springer 2009.
152. Huajun Tang Zhaoliang Li. Quantitative Remote Sensing in Thermal Infrared Theory and Applications[M]. Berlin Springer 2013.
153. Rémi Cresson. Deep Learning for Remote Sensing Images with Open Source Software[M]. Boca Raton CRC Press 2020.
154. Venkat Lakshmi. Remote Sensing of Hydrological Extremes[M]. Berlin Springer 2016.
155. Nicolas Baghdadi Mehrez Zribi. Microwave Remote Sensing of Land Surfaces Techniques and Methods[M]. Amsterdam ISTE Press-Elsevier 2016.
156. Dale A. Quattrochi Elizabeth A. Wentz et al. Integrating Scale in Remote Sensing and GIS[M]. Boca Raton CRC Press 2019.
157. Gottfried Konecny. Geoinformation Remote Sensing Photogrammetry and Geographic Information Systems Second Edition[M]. Boca Raton CRC Press 2009.
158. Persaud Haimwant. Geographical Information System for Community Health Monitoring[M]. Germany LAP Lambert Academic Publishing 2014.
159. Peter A. Burrough Rachael A. McDonnell et al. Principles of Geographical Information Systems[M]. New York Oxford University Press 2015.
160. Robert M. Sorensen. Basic Coastal Engineering[M]. Berlin Springer 2006.
161. Leo H. Holthuijsen. Wave in Oceanic and Coastal Waters[M]. Cambridge Cambridge University Press 2003.
162. William J. Kamphuis. Introduction to Coastal Engineering and Management[M]. Singapore World Scientific Publishing Co. Pet. Ltd. 2010.
163. Leo C. Van Rijn. Principles of Sediment Transport in River Estuaries and Coastal Seas[M]. Aqua Publications 1993.

164. Donald McLusky Eric Wolanski. Treatise on Estuarine and Coastal Science[M]. Salt Lake City Academic Press 2012.
165. Dominic Reeve Andrew Chadwick et al. Coastal Engineering Coastal Engineering Processes Theory and Design Practice[M]. Spon Press 2018.
166. Willem T. Bakker. Coastal Dynamics[M]. Singapore World Scientific Publishing 2013.
167. Robert G. Dean Robert A. Dalrymple. Coastal Processes with Engineering Applications[M]. Cambridge Cambridge University press 2004.
168. Robert T. Hudspeth. Waves and Wave Forces on Coastal and Ocean Structures[M]. Singapore Word Scientific press 2006.
169. Gerhard Masselink Michael G. Hughes et al. Introduction to Coastal Processes & Geomorphology (second edition) [M]. New York Routledge Press 2011.
170. Johan C. Winterwerp and Walther G.M. Van Kesteren. Introduction to the Physics of Cohesive Sediment Dynamics in the Marine Environment[M]. Amsterdam Elsevier Publishing 2004.
171. Eric Wolanski and Donald McLusky. Treatise on Estuarine and Coastal Science[M]. New York Academic Press. 2011.
172. Job Dronkers. Dynamics of coastal systems[M]. Singapore World Scientific Publishing 2016.
173. Gerardo M.E. Perillo Eric Wolanski et al. Coastal Wetlands[M]. Amsterdam Elsevier Publishing 2019.
174. Xiaohua Wang. Sediment Dynamics of Chinese Muddy Coasts and Estuaries[M]. Salt Lake City Academic Press 2019.
175. (T/CA0E20.1-2020) Technical Guideline for Investigation and Assessment of Coastal Ecosystem().
176. (T/CA0E21.1-2020) Technical Guideline on Coastal Ecological Rehabilitation for Hazard Mitigation().

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.
28. Science

29. Nature
30. Nature Geoscience
31. Nature Sustainability
32. Water Science and Engineering
33. Water Research
34. Water Resource Research
35. Chemosphere
36. Climate Dynamics
37. Coastal Engineering
38. Earth System Science Data
39. Engineering Geology
40. Environmental Modelling & Software
41. Environmental Pollution
42. Environmental Research
43. Environmental Science & Technology
44. Estuaries and Coasts
45. Estuarine Coastal and Shelf Science
46. Fish & Shellfish Immunology
47. Geomorphology
48. Geophysical Research Letters
49. Global Change Biology
50. Hydrogeology Journal
51. Hydrological Processes
52. IEEE Transactions on Geoscience and Remote Sensing
53. Journal of Environmental Management
54. Journal of Geophysical Research Earth Surface
55. Journal of Geophysical Research Oceans
56. Journal of Geophysical Research Solid Earth
57. Journal of Hazardous Materials

58. Journal of Hydrology
59. Landslides
60. Limnology and Oceanography
61. Ocean and Coastal Management
62. Ocean Engineering
63. Remote Sensing of Environment
64. Renewable Energy
65. Science of the Total Environment