

# **Diving & ROV specialists**



**Index for document research**

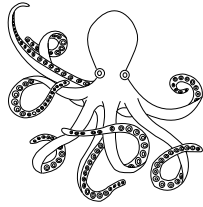
**Documents regarding underwater construction  
stored in the website database**



**September 2024**



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# Diving & ROV Specialists

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## Purpose

This document lists the papers on "*Underwater construction*" archived in the relevant section of the "Diving and ROV Specialists" website database.

Its purpose is to serve as a supplementary resource for research to the chronological list and search engine capabilities. For this reason, the various documents are categorized under the following sub-sections:

- Procedures and studies for the oil and gas industry
- Procedures and studies for the renewable energy industry
- Procedures and studies for the tunneling industry
- Procedures and studies for all subsea work

Categorizations will be refined over time. However, it is impractical to provide search engines and classifications that fully reflect researchers' preferences. Therefore, it is hoped that these three search methods will enable you to find the documents you seek.

Unlike the website's chronological index, this document does not include descriptions of the content of the various papers. However, the chronological classification number, authors' names, and publication dates are available, allowing you to locate them in the chronological lists where the descriptions and download links are provided.

This list was published on 1 September 2024. Please note that new documents added for this edition of the website are listed for each main section on the home page of the website.



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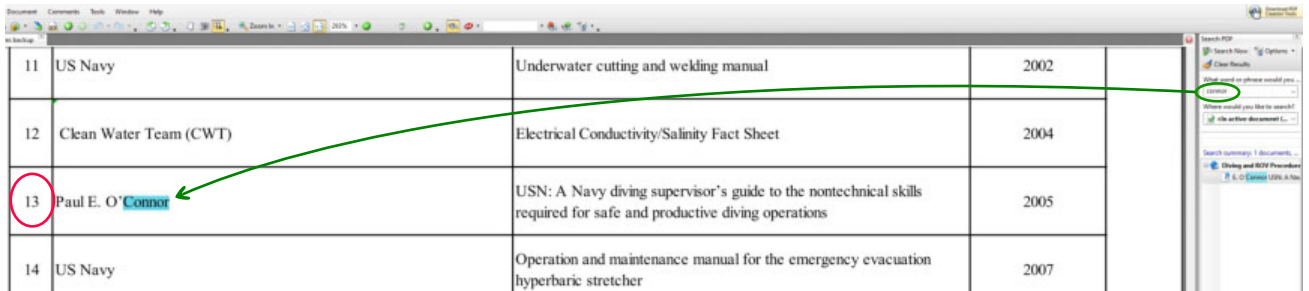
## Important note:

This document is in PDF (Portable Document Format), so it can be downloaded and used independently of the website. It is also worth noting that some PDF readers come with a built-in search engine. This feature allows users to locate specific documents by entering relevant keywords, making document retrieval more efficient and convenient. It is, therefore, possible to find the desired document by browsing the list or by using the aforementioned search engine. Among the many free PDF readers available on the Internet, the four listed below include the aforementioned search engine:

- WPS Office ( <https://www.wps.com/> ) - works on Windows, Mac OS, and Linux
- PDF X Change Viewer (<https://pdf-xchange.eu/pdf-xchange-editor/index.htm>) - Works on Windows and Mac OS.
- Foxit Reader (<https://www.foxit.com/pdf-reader/>) - Works on Windows, Linux , and Mac OS
- Adobe Acrobat Reader (<https://get.adobe.com/reader/>) - Works on Windows and Mac Os.

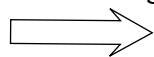
### To locate a document within the chronological presentation of the database:

1. Follow the list and select the desired document, or use the search function of the PDF software by entering the keyword in the dedicated field. In this example, the author's name (Paul E. O'Connor) has been used.



11	US Navy	Underwater cutting and welding manual	2002
12	Clean Water Team (CWT)	Electrical Conductivity/Salinity Fact Sheet	2004
13	Paul E. O'Connor	USN: A Navy diving supervisor's guide to the nontechnical skills required for safe and productive diving operations	2005
14	US Navy	Operation and maintenance manual for the emergency evacuation hyperbaric stretcher	2007

2. Select the reference number (highlighted in red) and the year of publication (2005 in this example).
3. On the website, open the corresponding section and year of publication in the database (accessible via "Documents" in the navigation bar).



#### ***Diving & ROV procedures and standards***

This section provides currently enforced diving standards and guidelines adopted by national bodies or published by professional organizations. It also includes procedures published by highly skilled independent authors that can serve as references. Links are provided to organizations that publish paid documents frequently used or imposed on contractors.  
Note that we believe that every standard or norm imposed on contractors should be available free of charge.

Diving & ROV procedures

- Documents years 2019 to today

- Documents years 1980 to 2018

#### ***Historical***

4. Scroll down to find the corresponding number, title, and author's name in the chronological list. Click on the picture or the description, and enjoy.

13 - USN: A Navy diving supervisor's guide to the nontechnical skills required for safe and productive diving operations



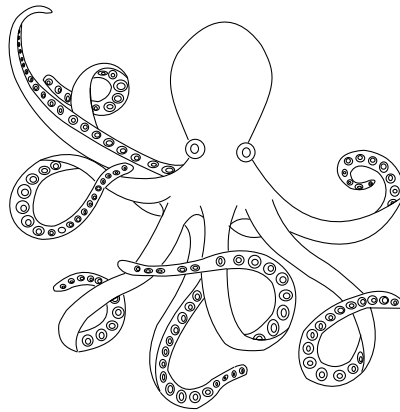
Author: Paul E O'Connor

The purposes of this guide are to provide information on the nontechnical skills required for safe and productive operations by U.S. Navy dive teams. Nontechnical skills are required for safe and effective performance in a technical context but are not directly related to technical expertise. The nontechnical skills addressed in this guide include situation awareness, decision making, team working/leadership, and mitigating the effects of stress and fatigue. Communication is not included as a separate topic since it underpins every one of these skills.

Reference USN: NEDU TR 05-09  
Date: June 2005



# Procedures and studies for the oil and gas industry

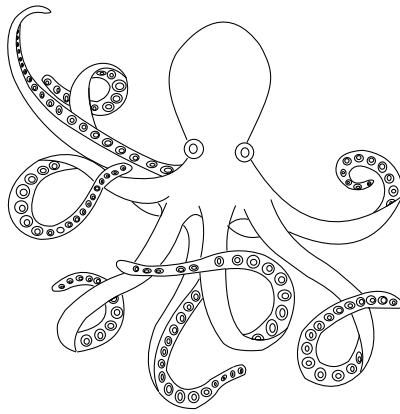


<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
<b>1995 - 2015</b>			
1	Kimberlie Staheli, David Bennett, Hugh W. O'Donnell, & Timothy J. Hurley	Installation of Pipelines Beneath Levees Using Horizontal Directional Drilling	1998
2	Iris D. Tommelein	Pull-driven sheddulling for pipe-spool installation: Simulation of a lean construction technique	1998-08
6	Vincent Alliot, & Olivier Carré,	Riser Tower Installation	2002
7	Won-Bae Na, & Tribikram Kundu	Underwater Pipeline Inspection Using Guided Waves	2002
9	Vincent Alliot, & Jean-Luc Legras	Lessons Learnt from the Evolution and Development of Multiple-Lines Hybrid Riser Towers for Deep Water Production Applications.	2005
13	Vincent Alliot, Haiyan Zhang, Dominique Perinet, & Sanjay Sinha	Development of Towing Techniques for Deep Water Flowlines and Risers	2006
15	Kabir Sadeghi,	An Overview of Design, Analysis, Construction and Installation of Offshore Petroleum Platforms Suitable for Cyprus Oil/Gas Fields	2007-01
17	J. F. Saint-Marcoux, J. P. Branchut, G. De-Roux, & Acergy	Method of Installing Hybrid Riser Tower - European patent specifications	2007-11
34	Labban R, Abourizk S, Haddad Z, El-Sersy A	A Pipe Spool Fabrication Simulation Model	2013-01
<b>2016 - 2019</b>			
12	Jing Liu, Meimanat Soleimanifar, & Ming Lu	Resource-loaded piping spool fabrication scheduling: material-supply-driven optimization	2017-04
14	EMAS-AMC company	Conventional Subsea Pipeline Installation Methodologies, Potential Failure Modes and Considerations for Installation Engineering	2017-06
23	ABS	Design and installation of dynamically installed pipes	2018-03
27	Oceaneering	Pipeline Repair Systems technical overview	2018
<b>2020</b>			
5	Plidco	Split + sleeve installation	2020
6	Plidco	Smith + clamp installation	2020
7	SBM	Turret & mooring systems	2020
12	Osamah Sarhan, Mahdy Raslan	Offshore petroleum rigs/platforms: An overview of analysis, design, construction and installation	2020-07
26	Dimitris Souravlias , Ioannis Dafnomilis , Jens Ley, Gerrit Assbrock, Mark B. Duinkerken, Rudy R. Negenborn, and Dingena L. Schott	Design Framework for a Modular Floating Container Terminal	2020-11
<b>2021</b>			
14	Yuliya Ryltseva	Design and construction of underwater pipelines crossings	2021-05
18	Lin Li a, Xinying Zhu, Carlos Parra, & Muk Chen Ong	Comparative study on two deployment methods for large subsea spools	2021-06

38	Eugene B. Caldon, John Ryan C. Dizon, Robert Andrew Viers, Vincent Joseph Garcia, & 2 other scientists	Additively manufactured high-performance polymeric materials and their potential use in the oil and gas industry	2021
<b>2022 - Now</b>			
4	Y. Zhang, Y.D. Zhou, & H. Wu	Influence of water level on RC caisson subjected to underwater explosions.	2022
9	Daniel Flórez-Orrigo, Cyro Albuquerque, Julio A. M. Da Silva, Ronaldo Freire, & Silvio De Oliveira Junior	Offshore Utility Systems for FPSOs: A Techno-Environomic Assessment Considering the Uncertainty About the Natural Gas Price	2022-04
11	Sahil Tadwalkar, Yujin Lee, and Martin Fischer	Challenges and Future of Prefabricated Pipe Spools	2022-06
35	UDECO AS	Udecom Tie-in System Subsea Spool, Connection & Installation System	2023-06
43	Mohamed ElMenshawy, Lingzi Wu, Brian Gue, and Simaan AbouRizk	Exploring the Potential of Reinforcement Learning in Pipe Spool Scheduling in Industrial Projects	2024-06



# Procedures and studies for the renewable energy industry



<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
<b>1995 - 2015</b>			
5	A J MacLeod, S Barnes, & K G Rados,	Wake effects in tidal current turbine farms	2002
10	Jeremy Thake,	Development and installation and testing of large-scale tidal current turbine	2005
11	Ye Li, & Keith Florig	Modeling the Operation and Maintenance Costs of a Large Scale Tidal Current Turbine Farm	2006
12	G. Hagerman, B. Polagye, R. Bedard, & M. Previsic	Methodology for estimating tidal current energy resources and power production by tidal stream energy conversion (TISEC) devices.	2006
14	A. Muetze, & J. G. Vining	Ocean Wave Energy Conversion - A Survey	2006
16	DTI (UK)	Economic viability of a simple tidal stream energy capture device	2007
18	Baleshwar Singh, Birjukumar Mistri, & Ravi Patel	Comparison of Foundation Systems for Offshore Wind Turbine Installation	2007
19	Stuart Ballard	3rd Generation Tidal Turbines: too efficient to ignore?	2009
21	Kari Burman, & Andy Walker	Ocean Energy Technology Overview	2009-09
22	Sanjeev Malhotra,	Selection, Design and Construction of Offshore Wind Turbine Foundations	2010
23	Kari Sormes	Small-scale Water Current Turbines for River Applications	2010
24	M. Willis, I. Masters, S. Thomas, R. Gallie, & 18 other scientists	Tidal turbine deployment in the Bristol Channel: a case study	2010
25	R Sinclair	Ramboll Energy: Tidal turbine foundation optimisation	2011
26	Sanjeev Malhotra	Selection, Design and Construction of Offshore Wind Turbine Foundations	2011
27	Tatiana Montlonch Araquistain	Tidal Power: Economic and Technological assessment	2011
28	Rubayat Tousif, & Buland Taslim	Tidal Power: An Effective Method of Generating Power	2011
29	Manabu Takao, & Toshiaki Setoguchi	Air Turbines for Wave Energy Conversion	2012
33	Afo Falcão	Historical aspects of wave energy conversion	2012-12
35	Daniel Brinck, & Nicklas Jeremejeff	The development of a vertical axis tidal current turbine	2013
36	Alain Michel Jules Norro, Bob Rumes, and Steven Johan Degraer	Differentiating between Underwater Construction Noise of Monopile and Jacket Foundations for Offshore Windmills: A Case Study from the Belgian Part of the North Sea	2013-02
37	Zhibin Zhou, Franck Scuiller, Jean Frédéric Charpentier, Mohamed Benbouzid, and Tianhao Tang	Power Limitation Control for a PMSG-Based Marine Current Turbine at High Tidal Speed and Strong Sea State	2013
38	B. Elsaesser, Pal Schmitt, Cuan Boake, Adele Lidderdale, & 5 other authors	Marine Renewables Infrastructure Network: Tidal Measurement Best Practice Manual	2013

39	IRENA	International Renewable Energy Agency: Tidal energy - technology brief	2014
40	Kelly Guiberteau, Theodore A. Kozman, Jim Lee, & Yucheng Liu	Guidelines in Wave Energy Conversion System Design	2014
41	Gareth j. Knowles, & Ross Bird	Method and system for fluid wave energy conversion	2014
42	Ruud Kempener, & Frank Neumann	Wave energy technology brief	2014
43	M. J. Lawson, Y. Li	National Renewable Energy Laboratory: Structural Design of a Horizontal-Axis Tidal Current Turbine Composite Blade	2014
46	Dr. Ir. Darmawi	Tidal Current Turbine and Related Development Problems for Indonesia	2014
47	Jesse w. Teichman	Wave energy conversion systems and methods	2014
48	T Karthikeyan, Abdus Samad, & Rameez Badhurshah	Review of air turbines for wave energy conversion	2014
49	De Oliveira Falcao, De Carvalho Gato, & De Campos Henrique	Air turbine for applications in wave energy conversion	2014
52	DNV	DNVGL-SE-0163 / Edition October 2015 - Certification of tidal turbines and arrays	2015
53	Leszek Chybowski, & Bolesław Kuźniewski	An overview of methods for wave energy conversion	2015
54	Johannes Falnes, & Adi Kurniawan	Fundamental formulae for wave-energy conversion	2015
56	Chris Binnie	Tidal energy from the Severn estuary, UK	2015
57	Sui Kwang Chua	Wave energy conversion plant	2015
58	Purvi Chauhan, Pathik Patel, & Saurin Sheth	Tidal Stream Turbine- Introduction, current and future Tidal power stations	2015
<b>2016 - 2019</b>			
1	A. Roberts, B. Thomas, P. Sewell, Z. Khan, & 2 other authors	Current tidal power technologies and their suitability for applications in coastal and marine areas	2016
2	Eduard Muljadi, Alan Wright, & Vahan Gevorgian	National Renewable Energy Laboratory: Power Generation for River and Tidal Generators	2016
3	Warren R. Smith	Wave-structure interactions for the distensible tube wave energy converter	2016
5	International Renewable Energy Agency	Floating Foundations: A Game Changer for Offshore Wind Power	2016-06
6	Vrushali V. Chaudhari, Ajit P. Chaudhari, Girish k. Mahajan, & Nitin M. Khandare	Electricity generation by using wind and tidal turbine for power fluctuation compensation	2016
7	Vikas M, Subba Rao, & Jaya Kumar Seelam	Tidal energy: A review	2016
8	E. Renzi	Hydroelectromechanical modelling of a piezoelectric wave energy converter	2016
9	S. S. Prakash, K. A. Mamun, F.R. Islam, R. Mudliar, & 3 other scientists	Wave Energy Converter: A Review of Wave Energy Conversion Technology	2016

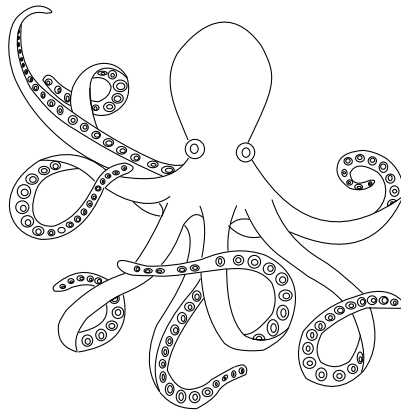
10	Ahmed S. Shehata, Qing Xiao, Khalid M. Saqr, & Day Alexander	Wells turbine for wave energy conversion: A review	2017-01
13	Md Abu S Shohag, Emily C Hammel, David O Olawale, & Okenwa I Okoli	Damage mitigation techniques in wind turbine blades: A review	2017-05
18	Stuart Walker, & Lorenzo Cappiotti	Experimental Studies of Turbulent Intensity around a Tidal Turbine Support Structure	2017
20	Rémi Collombet	Ocean Energy Key trends and statistics 2018	2018
22	Zhongyue Lu, Jianzhong Shang, Zirong Luo, Chongfei Sun, & Gewei Chen	Research on Efficiency of a Wave Energy Conversion System	2018-02
23	ABS	Design and installation of dynamically installed pipes	2018-03
24	Francis J. M. Farley	The underwater resonant airbag: a new wave energy converter	2018-07
26	Chris Golightly	Anchoring & Mooring for Floating Offshore Wind	2018
27	Oceaneering	Pipeline Repair Systems technical overview	2018
28	Orbital Marine Power	Orbital Marine Power: Orbital O2 2MW Tidal Turbine - Project Information Summary	2018
29	Enrico Di Lauro	Development of an innovative breakwater for wave energy conversion	2018
31	Giacomo Moretti, Gastone Pietro Rosati Papini, Luca Daniele, David Forehand, & 3 other scientists	Modelling and testing of a wave energy converter based on dielectric elastomer generators	2019
32	University of Plymouth	Foundations of offshore wind turbines: A review	2019-04
33	Nicoletta Patrizi, Riccardo M. Pulselli, Elena Neri, Valentina Niccolucci, & 3 other scientists	Lifecycle Environmental Impact Assessment of an Overtopping Wave Energy Converter Embedded in Breakwater Systems	2019
34	Alexander Solovyev, Dmitry Solovyev, & Liubov Shilova	The Ensuring of Survivability of Wave Energy Stations Constructive Elements in Extreme Weather Conditions	2019
35	Ruoyu Xu, Chongfeng Liu, Hengli Liu, Zhenglong Sun, & 2 scientists	Design and Optimization of a Wave Driven Solar Tracker for Floating Photovoltaic Plants	2019
36	Jijian Lian, Qi Jiang, Xiaofeng Dong, Yue Zhao, and Hao Zhao	Dynamic Impedance of the Wide-Shallow Bucket Foundation for Off shore Wind Turbine Using Coupled Finite-Infinite Element Method	2019-11
37	Z J Wang, & Z W Wang	A review on tidal power utilization and operation optimization	2019
38	BVG Associates	Guide to an offshore wind farm	2019
<b>2020</b>			
1	Xiangyuan Zheng, Huadong Zheng, Yu Lei, Yi Li, & We Li	An Offshore Floating Wind-Solar-Aquaculture System: Concept Design and Extreme Response in Survival Conditions	2020-01
2	Faisal Wani, & Henk Polinder	A review of tidal current turbine technology: present and future	2020
3	Nur Amirah Abdul Jamil, Siti Amely Jumaat, Suriana Salimin, Mohd Noor Abdullah, & Ahmad Fateh Mohamad Nor	Performance enhancement of solar powered floating photovoltaic system using arduino approach	2020
4	Noor Syazana Abd Ghani, Taib Ibrahim, & Nursyarizal Mohd Nor	Designing of a generator for wave energy conversion for outdoor activities	2020

5	Plidco	Split + sleeve installation	2020
6	Plidco	Smith + clamp installation	2020
7	SBM	Turret & mooring systems	2020
8	Can Zhang, Jisheng Zhang, Linlong Tong, Yakun Guo, & Peng Zhang	Investigation of array layout of tidal stream turbines on energy extraction efficiency	2020
9	Pei Zhang, Shugeng Yang, Yan Li, Jiayang Gu, Zhiqiang Hu, Ruoyu Zhang, & Yougang Tang	Dynamic Response of Articulated Offshore Wind Turbines under Different Water Depths	2020-06
11	Saleh Jalbi, Joseph Hilton, and Luke Jacques	Assessment of Practical Methods to Predict Accumulated Rotations of Monopile-Supported Offshore Wind Turbines in Cohesionless Ground Profiles	2020-07
16	Zhiyu Jiang	Installation of offshore wind turbines: A technical review	2020
17	Michael Borg, Morten Walkusch Jensen, Scott Urquhart, Morten Thøtt Andersen, Jonas Bjerg Thomsen, and Henrik Stiesdal	Technical Definition of the TetraSpar Demonstrator Floating Wind Turbine Foundation	2020-09
18	Karthik Balasubramanian, Sudhakar Babu Thanikanti, Umashankar Subramaniam, N.Sudhakar. & Sam Sichilalu	A novel review on optimization techniques used in wind farm modeling	2020
19	Hasnain Yousuf, Muhammad Quddamah Khokhar, Muhammad Aleem Zahid, Jaoun Kim, & 4 scientists	A Review on Floating Photovoltaic Technology (FPVT)	2020
20	Yan Xu, Kun Yang, Guohao Zhao	The influencing factors and hierarchical relationships of offshore wind power industry in China	2020
21	Pim van der Male, Marco Vergassola, and Karel N. van Dalen	Decoupled Modelling Approaches for Environmental Interactions with Monopile-Based Offshore Wind Support Structures	2020-10
22	French Committee for Soils Mechanics and Geotechnics	Recommendations for Planning and Designing Foundations of Offshore Wind Turbines	2020-10
24	Hongwei Fang, Yu Wei, & Yuzhu Feng	Design of dual-rotor PMSG for wave energy conversion	2020
27	Wang-chun Zhang, Hao Jing, and Hai-lei Kou	Effects of Relative Roughness and Particle Size on the Interface Behavior of Concrete Suction Caisson Foundation for Offshore Wind Turbines	2020-11
28	Dave J. Pojadas, Michael Lochinvar, & Sim Abundo	Spatio-temporal assessment and economic analysis of a grid-connected island province toward a 35% or greater domestic renewable energy portfolio: a case in Bohol, Philippines	2020-11
32	Ting Zhang, Bo tian, Dhritiraj Sengupta, Lei Zhang, & Yali Si	Global offshore wind turbine dataset	2020-07
33	Philippe Sergent, Virginie Baudry, Arnaud De Bonviller, Bertrand Michard, & Jérémy Dugor	Numerical Assessment of Onshore Wave Energy in France: Wave Energy, Conversion and Cost	2020-11
<b>2021</b>			
1	Junling Chen, Jinwei Li, Qize Li, and Youquan Feng	Strengthening Mechanism of Studs for Embedded-Ring Foundation of Wind Turbine Tower	2021-01
2	Vladimir Kallnlh	Wave energy conversion system	2021
3	Laura Castro-Santos, Maite deCastro, Xurxo Costoya, Almudena Filgueira-Vizoso, & 4 other scientists	Economic Feasibility of Floating Offshore Wind Farms Considering Near Future Wind Resources: Case Study of Iberian Coast and Bay of Biscay	2021
4	Shaojie Song, Haiyang Lin, Peter Sherman, Xi Yang, & 3 other scientists	Production of hydrogen from offshore wind in China and cost-competitive supply to Japan	2021
5	US Dept Energy	Offshore Wind Market Report: 2021 Edition	2021

7	James Murray	Orbital Marine Power: Orbital O2.2 Tidal Turbine - Project Information Document	2021-02
8	Yu-Shu Kuo, Kai-Jun Chong, Shang-Chun Chang, Jun-Fu Chai, and Hui-Ting Hsu	A Hybrid Method to Evaluate Soil Liquefaction Potential of Seabed at Offshore Wind Farm in Taiwan	2021-03
9	Alexandre Mathern, Christoph von der Haar, & Steffen Marx	Concrete Support Structures for Offshore Wind Turbines: Current Status, Challenges, and Future Trends	2021-04
11	Weimin Chen, Shuangxi Guo, Yilun Li, & Yijun Shen	Impacts of Mooring-Lines Hysteresis on Dynamic Response of Spar Floating Wind Turbine	2021-04
12	Kevin D. Friedland, Elizabeth T. Methratta, Andrew B. Gill, Sarah K. Gaichas, Tobey H. Curti, Evan M. Adams, Janelle L. Morano, Daniel P. Crear, M. Conor McManus, & Damian C. Brady	Resource Occurrence and Productivity in Existing and Proposed Wind Energy Lease Areas on the Northeast US Shelf	2021-04
15	Javier Sarmiento, Raúl Guanche, Arantza Iturrioz, Teresa Ojanguren, Alberto Ávila, & César Yanes	Experimental Evaluation of Dynamic Rock Scour Protection in Morphodynamic Environments for Offshore Wind Jackets	2021-06
16	Subhamoy Bhattacharya, Suryakanta Biswal, Muhammed Aleem, Sadra Amani, Athul Prabhakaran, Ganga Prakhya, Domenico Lombardi, & Harsh K. Mistry	Seismic Design of Offshore Wind Turbines: Good, Bad and Unknowns	2021-06
19	Mohamed Bashir Ali Bashir	Principle Parameters and Environmental Impacts that Affect the Performance of Wind Turbine: An Overview	2021-11
20	Wen-Ten Kuo, Zheng-Yun Zhuang	A Comprehensive Study of the Mechanical and Durability Properties of High-Performance Concrete Materials for Grouting Underwater Foundations of Offshore Wind Turbines	2021-09
21	Daniel Coles, Athanasios Angeloudis, Deborah Greaves, Gordon Hastie & 15 other scientists	A review of the UK and British Channel Islands practical tidal stream energy resource	2021-11
22	Jorge Soriano Vicedo, Javier García Barba, Jorge Luengo Frades, & Vicente Negro Valdecantos	Scale Tests to Estimate Penetration Force and Stress State of the Silica Sand in Windfarm Foundations	2021-09
23	Fei Yu, Yi Su, Yuliang Liu, Haibo Liu, & Fei Duan	Dynamic response of the mooring system in the floating photovoltaic power station	2021-09
25	Abhishek Kumar, Divyanshi Pal, Sanjay Kumar Kar, Saroj Kumar Mishra, & Rohit Bansal	An overview of wind energy development and policy initiatives in India	2021
26	Yaoping Bei, Bingqing Yuan, Qichen Wu, Liang Zhu, & Liang Chen	Solar floating photovoltaic power station unit Structural simulation analysis	2021
30	Hesan Ziar	Floating solar stations	2021
31	Bingyong Guo, Siming Zheng, John V. Ringwood, João C. C. Henriques, & Dahai Zhang	The institution of engineering and technology - Guest Editorial: Advances in Wave Energy Conversion Systems	2021
32	Anggara Trisna Nugraha, & Dadang Priyambodo	Design of Hybrid Portable Underwater Turbine Hydro and Solar Energy Power Plants: Innovation to Use Underwater and Solar Current as Alternative Electricity in Dusun Dongol Sidoarjo.	2021
35	Bingyong Guo, & John V. Ringwood	On energy transfer of parametric resonance for wave energy conversion	2021
36	Chun-Kuo Liu, Zhong-Ri Kong, Ming-Je Kao, & Teng-Chun Wu	A Novel Accelerated Aging Test for Floats in a Floating Photovoltaic System	2021
37	Thi Thu Em Vo, Hyeyoung Ko, Junho Huh, & Namje Park	Overview of Possibilities of Solar Floating Photovoltaic Systems in the OffShore Industry	2021
41	Min-Yuan Cheng and Yung-Fu Wu	Investment Evaluation and Partnership Selection Model in the Offshore Wind Power Underwater Foundations Industry	2021-09
42	E.G. Pratama, W Sunanda, & R.F. Gusa	A floating photovoltaic system for fishery aeration	2021
<b>2022 - Now</b>			
3	Marco Civera, Cecilia Surace	Non-Destructive Techniques for the Condition and Structural Health Monitoring of Wind Turbines: A Literature Review of the Last 20 Years	2022

7	Yuan Ma, Chaohe Chen, Tianhui Fan, and Hongchao Lu	Research on the Dynamic Behaviors of a Spar Floating Offshore Wind Turbine With an Innovative Type of Mooring System	2022-03
10	Riccardo Maria Pulselli, Matteo Maccanti, Morena Bruno, Alessio Sabbetta, Elena Neri, Nicoletta Patrizi, & Simone Bastianoni	Benchmarking Marine Energy Technologies Through LCA: Offshore Floating Wind Farms in the Mediterranean	2022-06
12	Dimitrios N. Konispoliatis, Dimitrios I. Manolas, Spyros G. Voutsinas, & Spyros A. Mavrakos	Coupled Dynamic Response of an Offshore Multi-Purpose Floating Structure Suitable for Wind and Wave Energy Exploitation	2022-06
24	Zhang Baofeng, Dong Rui, Wang Gang, Wang Guojun, and Zhang Dayong	Mitigation of ice-induced vibrations for wind turbine foundation using damping vibration isolation	2023-01
25	Fali Huo, Jie Xu, Hongkun Yang, Zhaojun Yuan, and Zhongxiang Shen	Study on characteristics of mooring system of a new floating offshore wind turbine in shallow water by experiment	2023-01
26	Xingda Ji, Tao Zou, Xu Bai, Xinbo Niu, and Longbin Tao	Fatigue assessment of flange connections in offshore wind turbines under the initial flatness divergence	2023-02

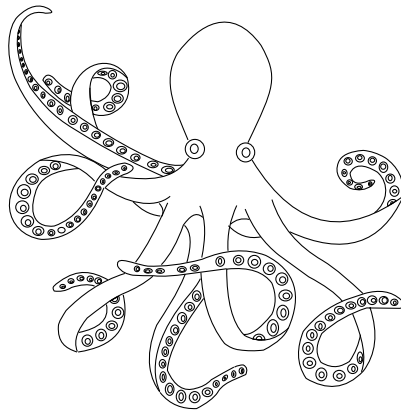
# Procedures and studies for the tunneling industry





<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
<b>1995 - 2015</b>			
55	Akshaykumar Ardeshana, Jayeshkumar Pitroda, & J.J.Bhavsar	Tunnels and tunneling operations: Introduction to old and new era	2015
<b>2016 - 2019</b>			
30	Zhong Zhou, Wenyuan Gao, Zhuangzhuang Liu, & Chengcheng Zhang	Influence Zone Division and Risk Assessment of Underwater Tunnel Adjacent Constructions	2019-01
<b>2021</b>			
29	Jian Wu, Zhifang Zhou, Wenjun Xia, Haixiao Wang, and Zhongqiang Fang	A Novel Excavation and Construction Method for an Extra-Long Underwater Tunnel in Soft Soils	2021-11
<b>2022 - Now</b>			
18	Xiao-Ping Zhang, Shao-Hui Tang, Quan-Sheng Liu, Hao-Jie Wang, Xin-Fang Li, Peng Chen, Hao Liu	Key technology for the construction and inspection of long-distance underwater tunnel for 1000 kV gas-insulated transmission line	2022-12
36	Rui Yang, Qian Kong, Meng Ren, Fuquan Ji, and Dejie Li	Statistical and numerical analysis on characteristics and influence factors of construction cracks of large-diameter underwater shield tunnel: a case study	2023-07

# Procedures and studies for all subsea work



<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
<b>1995 - 2015</b>			
3	Mosleh A. Al-Shamrani	Finite element analysis of breakout force of object embedded in sea bottom.	2000
4	Landris T. Lee, Jr., and Richard W. Peterson	US Army Corps of Engineers - Underwater Geotechnical Foundations	2001-12
8	Christian Patrascioiu, Casen Panaitescu, & Nicolae Paraschiv	Control Valves - Modeling and Simulation	2002
20	D.J. Rozene, E. Van Draege	Underwater steel structures: Inspection, repair, and maintenance	2009-08
31	US Army corp engineers	Unified Facilities criterias (UFC) - Maintenance and operations: Maintenance of waterfront facilities - UFC 4-150-07	2012-09
32	Pengzhen Lu, Shengyong Chen, & Yujun Zheng	Artificial Intelligence in Civil Engineering	2012-12
44	Kurt E. Thomsen	Vessels and Transport to Offshore Installations (Kurt E. Thomsen)	2014
45	Jan Jerman	Evaluation of a rigid element for offshore applications	2014
50	W. O. Ajagbe, E. O. Ilugbo, J. O. Labiran, and A. A. Ganiyu	Analysis and Design of a Fully Submerged Underground Water Tank Using the Principle of Beam on Elastic Foundations	2015-01
51	Oil & Gas UK	Best Practice for the Safe Packing & Handling of Cargo to & from Offshore Locations	2015
<b>2016 - 2019</b>			
4	Chengjiao Zhang, a Xiaojie Li, & Chenchen Yang	A modified method of characteristics and its application in forward and inversion simulations of underwater explosion.	2016
11	Zaran D. Patel, & Dr. Jayeshkumar Pitroda	A Study on the Developing concepts of Underwater Construction	2017-02
15	Wei Guo, Jian Chu, & Hailei Kou	Model tests on installation of suction caisson in clay	2017
16	Christiaan den Hertog	Passive Suction under Mud Mats	2017
17	Hassan Bagheri	Investigating the Effect of Underwater Explosion on Sandwich Structures.	2017
19	Kabir Sadeghi, Kozhin Al-kojy, & Krekar Nabi	General guidance for the design, fabrication and installation of jack-up platforms	2017
21	oil state	Fixed platform installation	2018
25	NAC executive insights	Design and Construction of Marine Structures	2018-10
<b>2020</b>			
10	Vahid Aryai, Rouzbeh Abbassi, Nagie Abdussamie, Faremeh Salehi, & 18 other scientists	Reliability of multi-purpose offshore facilities: Present status and future direction in Australia.	2020
13	Fernando Cañizal, Jorge Castro, Jorge Cañizal, and César Sagaseta	Pull-Out Capacity and Failure Mechanisms of Strip Anchors in Clay	2020-07
14	L Meng, R Y Huang, J Qin, J X Wang, and L T Liu	Study on the influence of rigid wall surface on the bubble characteristics of underwater explosion.	2020

15	Xinjian Xu, and Zhaoxing Meng	Study on the mechanism of breaking concrete by ultra-high pressure water jet	2020
23	Tsung-Yueh Lin, Yi-Qing Zhao, and Hsin-Haou Huang	Representative Environmental Condition for Fatigue Analysis of Off shore Jacket Substructure	2020-10
25	Jian Yin, Jing Yang, Minglong Bai, Tao Lv, and Yiru Suo	Discussion on Construction Technology and Quality Management of Underwater Cast-in-Place Concrete Pile	2020
29	Oleg Urazmetov, Marcel Cadet, Roman Teutsch, & Sergiy Antonyuk	Investigation of the flow phenomena in high-pressure water jet nozzles	2020-11
30	Yuqi Wang, Fuyou Xu, and Zhanbiao Zhang	Numerical Simulation of Inline Forces on a Bottom-Mounted Circular Cylinder Under the Action of a Specific Freak Wave	2020-12
31	Kai Wei, Cong Zhou, Mingjin Zhang, Zilong Ti, & Shunquan Qin	Review of the hydrodynamic challenges in the design of elevated pile cap foundations for sea-crossing bridges	2020-12
<b>2021</b>			
6	Ingo Drummen, and Gerrit Olbert	Conceptual Design of a Modular Floating Multi-Purpose Island	2021-02
10	Sarah Nichol, Rupp Carriveau, Lindsay Miller, D. S-K. Ting, Djordje Romanic, Adrian Costache, & Horia Hangan	Experimental Investigation of the Movement of an Offshore Floating Platform in Straight Wind, Tornadoic Wind, and Downburst Conditions	2021-04
13	Andreas Tockner, Bernhard Blümel, and Katrin Ellermann	Fault Detection in Modular Offshore Platform Connections Using Extended Kalman Filter	2021-05
17	Digvijay Rajput, Aniruddh Dubal	Underwater Construction: A Review	2021-06
24	Xinjian Xu, Zhaoxing Meng, and Haiqiang Lv	Exploration on Application of High Pressure Water Jet Cleaning Technology.	2021
27	Yong Zhan, Bailin Yi, Shaofei Wu, & Jianan Xu	Passive Heave Compensator Design and Numerical Simulation for Strand Jack during Lift Operation in Deep Water	2021
28	Yuying Ma, Guang Chen	Calculation and analysis of sea-fastening support and welding strength of topside module	2021-11
33	Giovanni Battista Rossi, Andrea Cannata, Antonio Iengo, Maurizio Migliaccio, & 3 other scientists	Measurement of Sea Waves	2021
34	Byungmo Kim, Jaewon Oh, & Cheonhong Min	Investigation on Applicability and Limitation of Cosine Similarity-Based Structural Condition Monitoring for Gagecho Offshore Structure	2021
39	Jun Yu, Jian-hu Liu, Hai-kun Wang, Jun Wang, & 2 scientists	Numerical simulation of underwater explosion cavitation characteristics based on phase transition model in compressible multicomponent fluids	2021
40	Cigdem Ozkan, Talea Mayo, & Davina L. Passeri	The Potential of Wave Energy Conversion to Mitigate Coastal Erosion from Hurricanes	2021
<b>2022 - Now</b>			
1	Jun Yu, Jian-hu Liu, Hai-kun Wang, Jun Wang, and 2 scientists	Application of two-phase transition model in underwater explosion cavitation based on compressible multiphase flows.	2022
2	Chen Fabo, He Ben, Gao Peng, Ge Xiangming, Zhou Yong, & Chu Weijiang	Effect of Installation Platform on Bearing Capacity of an Offshore Monopile Foundation	2022-01
5	Zhicheng Zhang, Yanbiao Zhao, & Nansha Gao	Recent study progress of underwater sound absorption coating	2022
8	Dian-Long Wang, Chao-Sheng Tang, Xiao-Hua Pan, Rui Wang, & 3 scientists	Construction and demolition waste stabilization through a bio-carbonation of reactive magnesia cement for underwater engineering	2022-04
13	Xieping Huang, Xiangzhen Kong, Jiu-Ting Dong, & Qin Fang	Scaling the failure of concrete gravity dam subjected to underwater explosion shock loading	2022

14	Jun Yu, Wen-Wei Wu, Jiu-Ting Dong, & Xian-Pi Zhang	Study on the mechanism and load characteristics of secondary cavitation near free surface in underwater explosion.	2022-10
15	Jiahui Cui, Nguyen Duc Van, Feng Zhang, Yukio Hama	Evaluation of Applicability of Minimum Required Compressive Strength for Cold Weather Concreting Based on Winter Meteorological Factors.	2022
16	Grzegorz Rutkowski, Pawel Kolakowski, & Katarzyna Panasiuk	The Analysis of Materials Strength Used in the Construction of the Flexible Underwater Bell—Batychron	2022-11
17	Fenghua Zhou, Rongwang Zhang, and Shaowei Zhang	Measurement principle and technology of miniaturized strapdown inertial wave sensor	2022-11
19	Elizabeth L. Freeman, Kristen D. Splinter, Ron J. Cox, & Francois Flocard	Dynamic Motions of Piled Floating pontoons Due to Boat Wake and Their Impact on Postural Stability and Safety.	2022-08
20	Jun Yu, Hai-tao Li, Zhen-xin Sheng, et al.	Numerical research on the cavitation effect induced by underwater multi-point explosion near free surface	2023-01
21	Parker hydraulics	Formulas, equations, and conversion tables	2023-01
22	Shaowei Zhang, Chuan Tian, and Fenghua Zhou	Design and optimization of buoy mooring with single-point cable for sea floor observatories	2023-01
23	Fei Tian, Erfeng Zhang, Chen Yang, Dehua Sun, Weidong Shi, and Yonghua Chen	Influence of installation height of a submersible mixer on solid liquid two phase flow field	2023-01
28	Vasily E. Nikulin, Sergey G. Parshin, Alexey M. Levchenko, Gennadiy N. Vostretsov, Ilya L. Repin)	Analysis of Residual Stresses for Underwater Wet Welding of High Strength Steel	2023-03
29	Mehdi Hajinezhadian & Behrouz Behnam	A probabilistic approach to lifetime design of offshore platforms	2023-05
30	Samuel Lensgraf, Devin Balkcom, Alberto Quattrini Li	Buoyancy enabled autonomous underwater construction with cement Blocks	2023-05
31	Xue-feng Zhang, & Chun-xia Song	Study on safety early-warning model of bridge underwater pile foundations	2023-05
32	Mao Zhi-yuan, Duan Chao-wei, Hu Hong-wei, Feng Hai-yun, & Song Pu	Review of Evaluation Methods of Underwater Explosion Power of Explosives	2023-06
33	D Chen, L J Zhang, Y Z Lv, B H Li, H P Gu	Sensitivity Study on Typical Parameters of Underwater Explosion Numerical Simulation	2023-06
34	T Ma, J X Wang, L T Liu, H Li, & 2 scientists	Study on the characteristics of initial shock waves generated by cylindrical charge for underwater explosion	2023-06
37	Ming He, Shuai Zhang, Shi-ping Wang, Ze-yu Jin, & Hemant Sagar	A refined numerical investigation of a large equivalent shallow-depth underwater explosion	2023-07
38	Fei Tian, Chen Yang, Erfeng Zhang, Dehua Sun, Weidong Shi, & Yonghua Chen	A study on the multi-objective optimization method and characteristic analysis of installation locations of submersible mixer for sewage	2023-07
39	Qiushi Hu, Heng Li, Guang Wang, and Lei Li	Research on torsional stiffness of flexspline-flexible bearing contact pair in harmonic drive based on macro-micro scale modeling	2023-07
40	Kinga Korniejenko, Szymon Gadek, Piotr Dynowski, Doan Hung Tran, & 3 scientists	Additive Manufacturing in Underwater Applications	2024-02
41	Fantong Lin, Xianxiang Zhou, Jian Zhao, Lan Xiao, & 3 scientists	Damage Characteristics and Dynamic Response of RC Shells Subjected to Underwater Shock Wave	2024-02
42	Juntao Sun, Jingzhu Huang, Zhiwei He, Jiahe Wang, Dawei Zhan, & Qingxiang Zhu	The Speed Prediction Research of Peak Particle Vibration Velocity in Underwater Blasting Based on GWO-SVR	2024-02

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