

Diving & ROV specialists



Index for document research

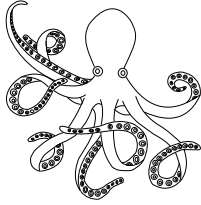
**Technical documents regarding diving systems
stored in the website database**



September 2024



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Diving & ROV Specialists

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Purpose

This document lists the "*Technical documents regarding diving systems*" 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:

- Guidelines
- Rules and acts
- Studies

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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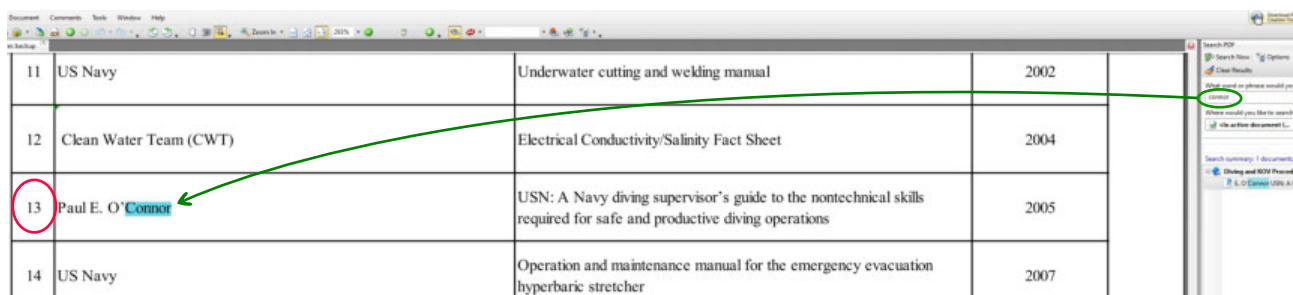
Important note:

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.

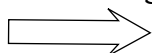
To locate a document within the chronological presentation of the database:

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



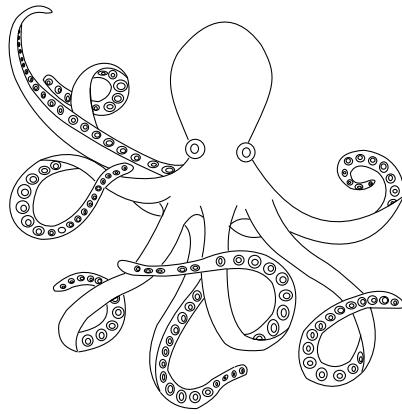
Author: Paul E O'Connor

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

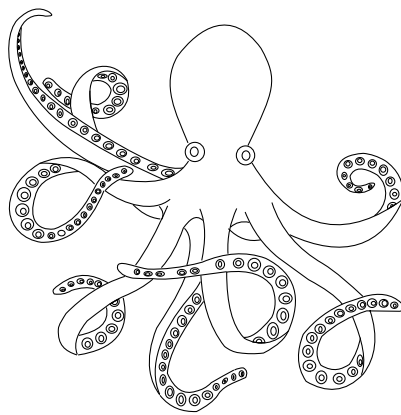
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Guidelines



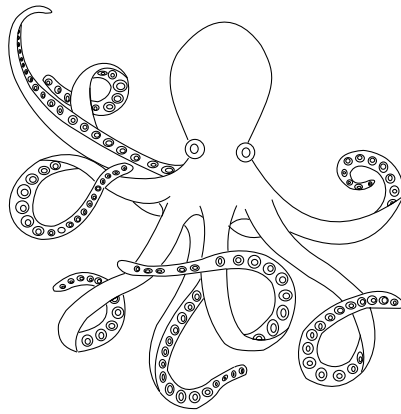
<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
1	USN	Atmosphere contamination following repainting of a human hyperbaric chamber complex	1990
3	Ting C. Chou, Anthony Fiedorowicz	Oxygen Compatibility of Polymers Including TFE-Teflon, KeI-F 81, VespeI SP-21, Viton A, Viton A-500, Fluorel, Neoprene, EPDM, Buna-N,	1997
4	Thomas L. Reynolds, Thor I. Eklund, & Gregory A. Haack	and Nylon 6,6 NASA - Onboard Inert Gas Generation System/Onboard Oxygen Gas Generation System (OBIGGS/OBOGS) Study	2001
5	Timothy L. Ward	Supported Dense Ceramic Membranes for Oxygen Separation	2003
6	Valerie Flook	Development of the ANALOX Hyper-Gas Diving Bell Monitor	2003
8	NAVSEA	NAVSEA - Applied engineering principles manual	2003
9	USN	Evaluation of a diver cooling system for use with personal protective equipment in contaminated water diving	2004
10	UHMS	Hyperbaric Facility Design Guidelines	2004
13	USN	US Navy diving umbilical)UBA MK 20 & Mk 21	2005
21	Mircea Horia Tierean, & Liana sanda Baltes	Design of Valves Used in Reciprocating Compressors	2009
22	David B. Kynor, & William E. Audette	Diver health monitoring system	2009
25	Kevin R Ward, Gary S Huvard, Mark McHugh, Rajender R Mallepally, & Richard Imbruce	Chemical Oxygen Generation	2013
26	Cunningham, S., Burke, A., & Kelly, G	CFD Modeling of Breakthrough in Closed Circuit Rebreather Scrubbers	1995
27	Hanna Kierzkwska-Pawlak, & Andrzej Chacuk	Pressure swing absorption of carbon dioxide in dmepeg solutions	2014
30	NAVSEA	Application procedure of formula 150 primer & 152 topcoat wite coatings on portable or afloat recompression chamber systems	2014
42	Stephen Butler	Safety update: high pressure cylinder inspection and testing	2017
50	Lei Shao, Guoliang Xie, Cheng Zhang, Xiao Liu, & 3 scientists	Combustion of Metals in Oxygen-Enriched Atmospheres	2017
52	Nicuser Chiripici, Amil Avram, & Laurentiu Mocanu	Diving protection against nuclear contaminants	2020
58	Y Yasemin	Preparation of copper sulfate loaded membrane and removal of hydrogen sulphide.	2019
62	Jinming Tian, Yue Zeng, Linhai Ji, Huimin Zhu, and Zu Guo	Control Method of Cold and Hot Shock Test of Sensors in Medium	2023-07
63	Arnaud Druelle, Lucille Daubresse, Jean U Mullot, Hélène Streit, & Pierre Louge	Hypoxic loss of consciousness in air diving: Two cases of mixtures made hypoxic by oxidation of the scuba diving cylinder	2023-12

Rules and acts



<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
11	USN	Standard Navy double lock recompression chamber system	2004
14	ASTM	ASTM G94: Standard Guide for Evaluating Metals for Oxygen Service	2005
15	ASTM	ASTM G88: Standard Guide for Designing Systems for Oxygen Service	2005
17	USN	US Navy general specifications for the design, construction, and repair of diving and hyperbaric equipment.	2006
18	ASTM	ASTM G63: Standard Guide for Evaluating Nonmetallic Materials for Oxygen Service	2007
20	ASTM	ASTM G128: Standard Guide for Control of Hazards and Risks in Oxygen Enriched Systems	2008
28	ABS	Rules for building and classing underwater vehicles, systems and hyperbaric facilities - ed. 2014	2014
33	US Navy	US Navy unmanned test methods and performance limits for underwater breathing apparatus	2015
35	Bureau Veritas	Rules for the Classification of Diving Systems	2016
39	DNV	Rules for classification - offshore units - Diving systems	2017
43	DNV	offshore containers	2017
45	ABS	Guide for certification of offshore containers	2017
48	Lloyd's Register	Rules and Regulations for the Construction & Classification of Submersibles & Diving Systems	2019
51	ABS	ABS - Offshore containers	2020
53	ABS	Rules for building and classing underwater vehicles, systems and hyperbaric facilities - ed. 2020	2020
59	Ryszard Kłos	Designing Diving Technology Part 1 - Decompression requirements	2022-10

Studies



<i>Nb</i>	<i>Authors</i>	<i>Title</i>	<i>Year publication</i>
2	Eftedal O., Mohammadi R, Rouhani M, Torp H., & Brubakk A.O.	Computer real time detection of intravascular bubbles	1995
3	Ting C. Chou, Anthony Fiedorowicz	Oxygen Compatibility of Polymers Including TFE-Teflon, KeI-F 81, Vespel SP-21, Viton A, Viton A-500, Fluorel, Neoprene, EPDM, Buna-N,	1997
4	Thomas L. Reynolds, Thor I. Eklund, & Gregory A. Haack	and Nylon 6,6 NASA - Onboard Inert Gas Generation System/Onboard Oxygen Gas Generation System (OBIGGS/OBOGS) Study	2001
5	Timothy L. Ward	Supported Dense Ceramic Membranes for Oxygen Separation	2003
7	USN	Lightweight dive system MK 3 Mod 0	2003
12	USN	Limited unmanned evaluation of the divex SLS MK4 backpack at sea level and 1000 fsw	2005
16	Justin Brady, Travis Spain, & Brent Shambaugh	Membrane Separation of Air to Produce Oxygen	2006
19	Sean Bishop, Keith Duncan, Helena Hagelin-Weaver, Luke Neal, & 3 scientists	Oxygen Generation from Carbon Dioxide for Advanced Life Support	2003
22	David B. Kynor, & William E. Audette	Diver health monitoring system	2009
23	Ding-Yu Fei, Xiaoming Zhao, Cosmin Boanca, Esther Hughes, Ou Bai, Ronald Merrell, Azhar Rafiq	A biomedical sensor system for real-time monitoring of astronauts' physiological parameters during extra-vehicular activities	2010-05
24	A. Afaneh, S. Alzebda, V. Ivchenko, & A. N. Kalashnikov	Ultrasonic Measurements of Temperature in Aqueous Solutions: Why and How	2011-02
25	Kevin R Ward, Gary S Huvard, Mark McHugh, Rajender R Mallepally, & Richard Imbruce	Chemical Oxygen Generation	2013
26	Cunningham, S., Burke, A., & Kelly, G	CFD Modeling of Breakthrough in Closed Circuit Rebreather Scrubbers	1995
27	Hanna Kierzkwska-Pawlak, & Andrzej Chacuk	Pressure swing absorption of carbon dioxide in dmepeg solutions	2014
29	T. Vu Quoc, H. Nguyen Dac, T. Pham Quoc, D. Nguyen Dinh, & T. Chu Duc	A printed circuit board capacitive sensor for air bubble inside fluidic flow detection	2014
31	Martin DJ Sayer, Elaine Azzopardi, & Arne Sieber	Decompression management by 43 models of dive computer: single square-wave exposures to between 15 and 50 metres' depth.	2014-12
32	USN	The history and implications of design standards for underwater breathing apparatus - 1945 to 2015	2015
34	Jiang Dongsheng, Bu Xueqin, Sun Bing, Lin Guiping, & 3 other scientists	Experimental study on ceramic membrane technology for onboard oxygen generation	2016
36	Thomas C, Blakeman, Dario Rodriquez, & TSgt Tyler J. Britton	Evaluation of Oxygen Concentrators and Chemical Oxygen Generators at Altitude and Temperature Extremes	2016
37	John Graf	Chlorate Oxygen Generator (Oxygen Candle) Review of the History of Candle Development	2017
38	Asterios Kosmaras, Dimitrios Tzetzis, & Panagiotis Kyratsis	Finite element analysis and experimental validation of a novel oxygen pressure regulator	2017
40	Micheal Wolf, & Petr Eret	A study of reciprocating compressor valve dynamics	2017
41	Andreas Schuster, Olivier Castagna, Bruno Schmid, Tobias Cibis, and Arne Sieber	Underwater monitoring system for body temperature and ECG recordings	2017

42	Stephen Butler	Safety update: high pressure cylinder inspection and testing	2017
44	Jess M. Waller, Jon P. Haas, & Harold D Beeson	Polymer-oxygen compatibility testing effects of oxygen aging on ignition and combustion properties	2017
46	Salih Murat Egi, Pierre-Yves Cousteau, Massimo Pieri, Carlo Cerrano, & 2 scientists	Designing a Diving Protocol for Thermocline Identification Using Dive Computers in Marine Citizen Science.	2018
47	Ryszard Klos	Modelling of the Normobaric and Hyperbaric Facilities Ventilation	2019
49	Miraç MEMİŞOĞLU, amer ÖZYİĞİT, Seçil ŞATIR, & Salih Murat EGI	Development of a wireless pressure sensor module to convert the mobile phones into dive computers.	2019
50	Lei Shao, Guoliang Xie, Cheng Zhang, Xiao Liu, & 3 scientists	Combustion of Metals in Oxygen-Enriched Atmospheres	2017
52	Nicuser Chirpici, Amil Avram, & Laurentiu Mocanu	Diving protection against nuclear contaminants	2020
54	Anas Obeidat, Thomas Andreas, Stéphane P.A. Bordas, & Andreas Zilian	Simulation of gas-dynamic, pressure surges and adiabatic compression phenomena in geometrically complex respirator oxygen valves.	2021
55	Karl E. Huggins	Dive Computer Considerations	2021
56	Tye Langston, Shane Singh, and Jeffrey Hunt	Noise characteristics of the Kirby Morgan 37 surface-supplied diving helmet under simulated diving conditions	2021-12
57	Coda Octopus	Diver Augmented Vision Display (DAVD) Overview	2021-12
58	Y Yasemin	Preparation of copper sulfate loaded membrane and removal of hydrogen sulphide.	2019
60	Francesca Drago, Paolo Fedeli, Angelo Cavaliere, Andrea Cammi & 5 other scientists	Development of a Membrane Module Prototype for Oxygen Separation in Industrial Applications	2022-12
61	Lyubisa Matity, Francois Burman, Jacek Kot, Joseph Caruana	Effectiveness of hyperbaric chamber ventilation	2023-06
62	Jinming Tian, Yue Zeng, Linhai Ji, Huimin Zhu, and Zu Guo	Control Method of Cold and Hot Shock Test of Sensors in Medium	2023-07
63	Arnaud Druelle, Lucille Daubresse, Jean U Mullot, H�el�ene Streit, & Pierre Louge	Hypoxic loss of consciousness in air diving: Two cases of mixtures made hypoxic by oxidation of the scuba diving cylinder	2023-12

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