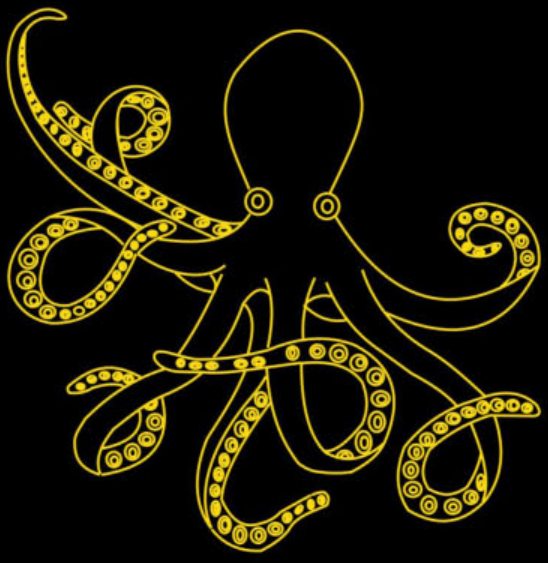

Diving & ROV specialists

Index for document research

Non-Destructuve Testing (NDT) documents stored in the website database

September 2024

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Diving & ROV Specialists
52/2 moo 3 tambon Tarpo 65000 Phitsanulock - Thailand
Tel: +66 857 277 123 - E mail: info@ccoltd.co.th

Purpose

This document lists the papers on ***"Non Destructive Testing (NDT)"*** 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:

- Presentations of principles used by NDT techniques
- Guidelines for NDT operations at the surface
- Guidelines for NDT operations performed underwater
- Various 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.

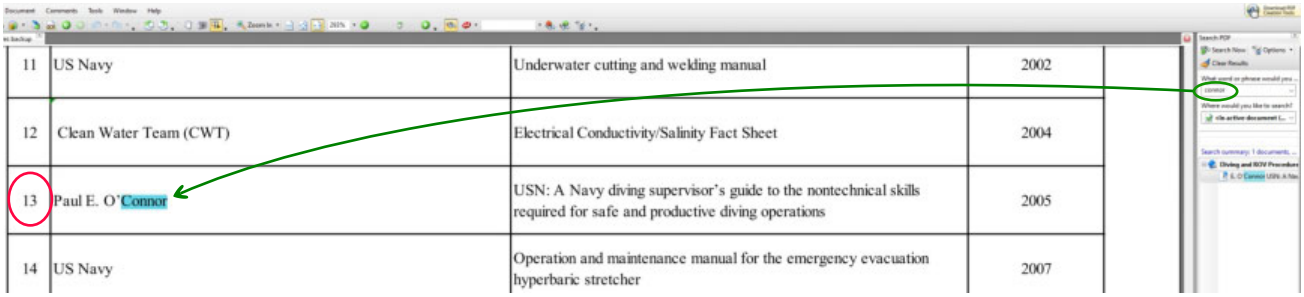
Important note:

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.

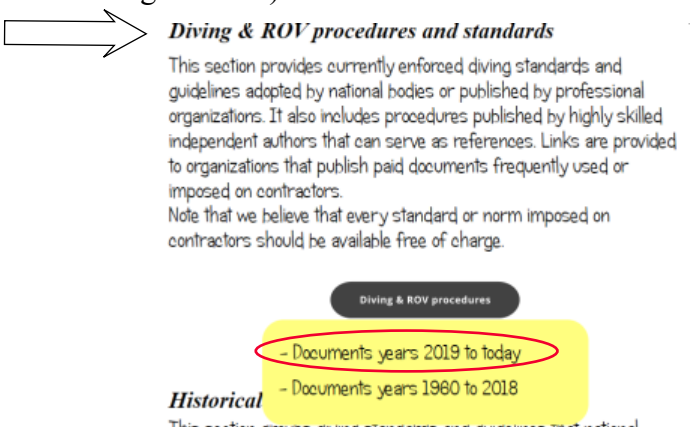
To locate a document within the chronological presentation of the database:

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.

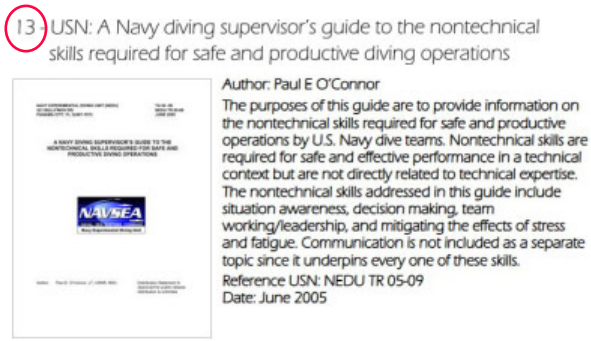


11	US Navy	Underwater cutting and welding manual	2002
12	Clean Water Team (CWT)	Electrical Conductivity/Salinity Fact Sheet	2004
13	Paul E. O'Connor	USN: A Navy diving supervisor's guide to the nontechnical skills required for safe and productive diving operations	2005
14	US Navy	Operation and maintenance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



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.



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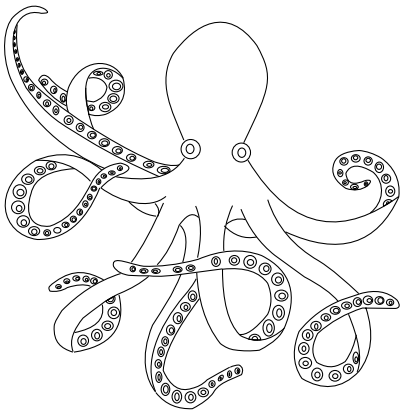
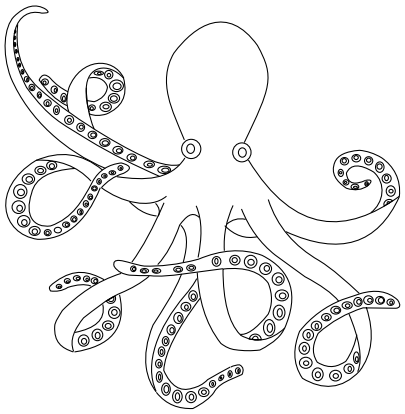
Presentations of principles used by NDT techniques



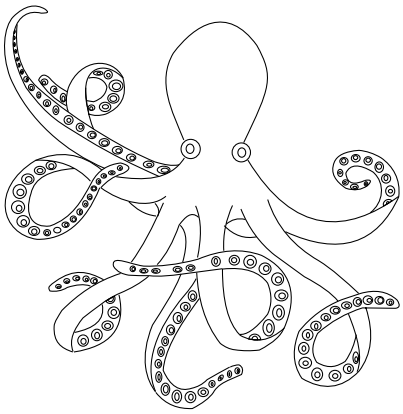
Nb	*Authors*	*Title*	*Year publication*
4	? (Authors and publishers unknown)	Basic Principles of Ultrasonic Testing	2000
6	? (Authors and publishers unknown)	Magnetic particle testing - presentation	2002
7	Mark Stephen Rogers	Non-Destructive Testing - Presentation	2002
13	American society for non destructive testing	ASNT - Magnetic testing	2008
14	Siemens Rolling Stock Pvt. Ltd	Ultrasonic testing - presentation	2010
22	Restu Putra, & Ahmad Irsyad	Eddy current inspection application - Presentation	2017
26	IAEA	IAEA - An Introduction to Practical Industrial Tomography Techniques for Non-destructive Testing (NDT)	2013

Guidelines for NDT operations performed at the surface



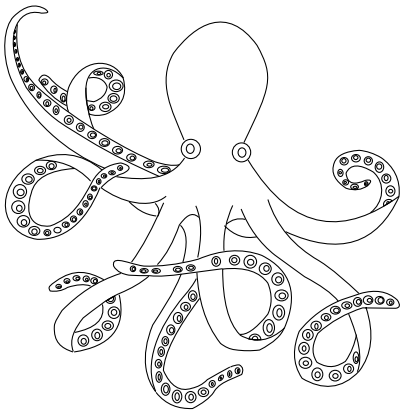
Nb	*Authors*	*Title*	*Year publication*
3	A.I.Bondarenko, & E.O.Paton	Mechanism of detection of discontinuities in pipelines by ultrasonic guide waves	2000
5	IAEA	IAEA - Guidebook for the Fabrication of Non-Destructive Testing (NDT) Test Specimens.	2001
8	Micheal C. Smith	TSC Inspection Systems: ACFM Inspection Procedure for U31 and QFMu	2004
9	IAEA	IAEA - Non-destructive testing for plant life assessment	2005
11	ASTN	ASNT - Radigraphic testing student guide	2007
12	Reza K. Amineh, Maryam Ravan, Hesamedin Sadeghi, & Rouzbeh Moini	Removal of Probe Liftoff Effects on Crack Detection and Sizing in Metals by the AC Field Measurement Technique	2008
15	International Atomic Energy Agency	Eddy Current Testing at Level 2: Manual for the syllabi Contained in iaea-TeCDoC-628.rev. 2 "Training guidelines for non Destructive Testing Techniques"	2011
16	Dzevad Hadzihafizovic	Welders' visual inspection handbook	2013
18	IAEA	IAEA - Training Guidelines in Non-destructive Testing Techniques: 2013	2013
19	ASNT	ASNT- Ultrasonic testing method	2014
21	Frontline	Procedure for Visual and Optical Inspection	2016
25	K Nagendran	Non-destructive testing methods: Liquid penetration & Magnetic particule testing	2018

Guidelines for NDT operations performed underwater



Nb	*Authors*	*Title*	*Year publication*
1	W. D. Dove, R. Collins, D. H. Michael	The Use of AC-Field Measurements for Crack Detection and Sizing in Air and Underwater	1986
2	UK HSE	A handbook for underwater inspectors	1988
10	ABS	ABS - Underwater Inspection In Lieu of Drydocking (UWILD)	2007
17	Jasper A. Agbakwuru, Ove T. Gudmestad, John Groenl, & Helge Skjaveland	Tracking of Buoyancy Flux of Underwater Plumes for Identification, Close Visual Inspection and Repair of Leaking Underwater Pipelines in Muddy Waters	2013
24	Ali Khaloo, David Lattanz, Adam Jachimowicz, & Charles Devaney	Utilizing UAV and 3D Computer Vision for Visual Inspection of a Large Gravity Dam	2018
29	Xiaofei Li, Heming Sun, Taiyi Song, Tian Zhang, Qinghang Meng	A method of underwater bridge structure damage detection method based on a lightweight deep convolutional network	2022-07
30	Sheng Shen, Zheng Cao, & Changqin Lai	Scanning Scheme for Underwater High-Rise Pile Cap Foundation Based on Imaging Sonar	2023-04

Various studies



Nb	*Authors*	*Title*	*Year publication*
20	Ken Woolley, Tim Woolley, & Bruce Banfield	A fresh initiative on the use of daylight magnetic particle inspection for the inspection of underwater steel structures	2015
23	Mark W Hounslow	Encyclopaedia of the Anthropocene: Magnetic particulates as markers of fossil fuel burning	2017
27	Duje Medak, Luka Posilovic, Marko Subasic, Marko Budimir, & Sven Loncari	Automated Defect Detection from Ultrasonic Images Using Deep Learning	2021-05
28	Chao Chen, & Xingyuan Zhang	Research on laser ultrasonic surface defect identification based on a support vector machine	2021-11
31	Zehao Wang, Defeng Zheng, Xingsen Guo, Zhongde Gu, Yueqiang Shen, & Tingkai Nian	Investigation of offshore landslides impact on bucket foundations using a coupled SPH–FEM method	2024-01
32	Hao Wang, Kan Wang, Xiaolei Liu, Yang Liu, Zhijia Qian, and Sheng Ding	Evaluation of damage performance in offshore floating photovoltaics-based hydrogen production system due to potential hydrogen release	2024-07

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