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Oil Spill Removal Techniques and Equipment
(Jan 73 - Sep 89)



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FIELD INFLATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL-POLLUTED AQUIFERS. - 0120611 X

Schiegg, H. O.

Water Res., vol.14, no.8, 1980, p.1011-1016. CODEN- WATRA COMPANY RELATED-
Electrowatt Engng. Serv. Ltd. NDN- 003-0009-8278-4

Hydromechanical fundamentals of field infiltration are examined and the maximum retention of oil by the Jamin effect is determined experimentally. (from author's abstract)

COMBATING OIL SPILLS IN THE MARINE ENVIRONMENT. - 0118348CH

Beynon, L. R.

In: Oceanology Int. Exhib. & Conf., (Brighton, U.K.: Mar.2-7, 1980), Tech. Session Marine Ecology Protection, Brighton, U.K., BPS Exhib. Ltd., 1980, p.21-25. NDA
003-0009-7454-4

NO-ABSTRACT

OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSHLANDS. - 0115300C

Breuel, A.

Park Ridge, U.S.A., Noyes Data Corp., 1981, 414p. (ISBN 0-8155-0848-4) NDN-
003-0009-2638-0

When a major oil spill occurs, it usually involves contamination of coastal or inland shorelines and marshlands, which can result in serious environmental and economic damage. Such damage can be significantly reduced if proper protection and cleanup actions are taken promptly. The purpose of this book is to provide a systematic, easy-to-apply methodology that can be used to assess the threat or extent of contamination and to choose the most appropriate protection/cleanup procedures for each shoreline or marshland contamination event. The book is structured to provide the field user with guidelines to determine which protection, cleanup, and restoration techniques would be most effective for a given shoreline, or marshland and oil spill situation. It provides information that is intended to minimize the damage to shorelines and marshlands and speed their recovery. A cost survey and a bibliography are included.

OIL SLICK REMOVAL SYSTEM. - 0116379Xt

Mech. Engng., vol.98, no.2, Sep. 1976, p.62. CODEN- 000001 NDN-
003-0009-1621-0

This brief article outlines a means of removing oil slicks from water by means of new water jet system. Advantages are claimed to include high cleaning capacity, need for little maintenance, and its ability to remove other floating substances from water. (A)

SEPARATION OF OILY WATER BY BUBBLE COLUMN. - 0105184XL

Takahashi, T. Miyahara, M. Nishizaki, Y.

J. Chem. Engng. Japan, vol.12, no.5, Oct. 1979, p.394-399. CODEN- JCETAQ
COMPANY RELATED- Okayama Univ. NDN- 003-0008-6839-2

Experiments for removing emulsified oil from oily water by use of a bubble column were carried out in oil-in-water emulsion of dilute suspension and minute oil particles. The hydrodynamic performance of bubble layer in a column is evaluated approximately by the results obtained by the authors. The removal rate of emulsified oil from oily water is influenced by many factors, and the fastest removal rate is obtained when pH is about 4. The mechanism of the removal of emulsified oil follows the first-order kinetics proposed by Imaizumi et al. under the assumption that the rate constant has a distribution expressed as the gamma distribution function. (A)

DEVELOPMENT OF A NEW DEVICE TO COMBAT OILSPILLS AT SEA. - 0105195XV

Spandick, W.

Meerestechnik Mar. Technol., vol.12, no.1, Feb. 1981, p.7-11. CODEN- MRTKA4
LANGUAGE(S)- German NDN- 003-0008-6828-8

NO-ABSTRACT