

ADVANCES IN UNDERWATER TECHNOLOGY,
OCEAN SCIENCE AND OFFSHORE ENGINEERING
VOLUME 32

SUBSEA CONTROL AND DATA ACQUISITION OIL AND GAS PRODUCTION SYSTEMS

*Papers presented at a conference organized by the
Society for Underwater Technology
and held in London, U.K., April 26-27, 1994*



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(SUT),1990-04-30 The conference organized jointly by the International Association of Underwater Engineering Contractors and the Society for Underwater Technology was held in November 1989 The three sessions cover changing requirements for underwater inspection and maintenance developments in remotely controlled technology and advances in diving safety No index Annotation copyrighted by Book News Inc Portland OR SUBTECH '91 Society for Underwater Technology

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was primarily developed as a flowline for use in static seabed applications Society for Underwater Technology (SUT),2013-03-14 In determining the response of offshore structures it is of utmost importance to determine in the most correct manner all factors which contribute to the total force acting on these structures Applying the Morison formula Morison et al 1950 to calculate forces on offshore slender structures uncertainties related to the understanding of the wave climate the hydrodynamic force coefficients and the kinematics of ocean waves represent the most important contributions to the uncertainties in the prediction of the total forces on these structures Haver and Gudmestad 1992 Traditional calculation of forces on offshore structures involves the use of regular waves with the following non linearities incorporated use of regular wave theories incorporating higher order terms use of Morison equation having a nonlinear drag term inclusion of the effect of the free surface by integrating all contributions to total forces and moments from the sea floor to the free surface of the waves In order to describe the sea more realistically the ocean surface is to be described as an irregular sea surface represented by its energy spectrum The associated decomposition of the sea surface is given as a linear sum of linear waves The total force is found by integrating the contribution from all components in the wave spectrum to the free surface The kinematics of each component must therefore be determined

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