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IMPORTANCE OF DIRECTIONALITY IN THE EVOLUTION OF LARGE WAVES IN INTERMEDIATE AND SHALLOW WATER -- INCORPORATION OF WAVE TRANSMISSION AND OVERTOPPING EFFECTS INTO A MULTIDIRECTIONAL RANDOM WAVE TRANSFORMATION MODEL -- THE RELATIVE TROUGH FROUDE NUMBER FOR TERMINATION OF WAVE BREAKING --ESTIMATION OF INCIDENT AND REFLECTED WAVES USING MULTIPLE SENSORS -- ON THE RUN-UP AND DRAW-DOWN OF BREAKING SOLITARY WAVES -- TURBULENT INTERFACIAL BOUNDARY CONDITIONS FOR SPILLING BREAKERS -- WHITECAPS: EFFECTS OF WAVE AGE AND AIR STABILITY -- LARGE EDDY SIMULATION OF REGULAR WAVES BREAKING **OVER A SLOPING BEACH -- INVESTIGATION OF DECOMPOSITION** METHODS OF TURBULENT FLOW FIELD BENEATH WIND WAVES --NUMERICAL SIMULATION OF 3-D WAVE BREAKING ON BREAKWATER. SPH-LES TWO-PHASE SIMULATION OF WAVE BREAKING AND WAVE-STRUCTURE INTERACTION -- NONLINEAR WAVE INTERACTION WITH SUBMERGED AND SURFACE-PIERCING POROUS STRUCTURES --DEVELOPMENT OF A STRICTLY COMBINED BEM-VOF METHOD AND ITS APPLICATION TO WAVE PROPAGATION THROUGH 3 DOMAINS --VELOCITY MEASUREMENTS IN AERATED REGION OF PLUNGING BREAKING WAVE -- LABORATORY STUDY OF TURBULENT FLOW STRUCTURES IN BREAKING WAVES BY PARTICLE IMAGE VELOCIMETRY --EXPERIMENTAL STUDY OF THE PLUNGING WAVE PROCESS --TURBULENT FEATURES BENEATH BREAKING WAVES -- NONLINEAR SURF ZONE WAVE PROPERTIES AS ESTIMATED FROM BOUSSINESQ MODELLING : RANDOM WAVES AND COMPLEX BATHYMETRIES -- WAVE HEIGHT DISTRIBUTIONS ALONG A BEACH PROFILE -- A MODIFIED MODEL FOR WAVE DECAY ON BEACHES -- EXPERIMENTAL WAVE BREAKING IN SWAN -- ON VISUALLY OBSERVED WAVES AT SAN CLEMENTE, CALIFORNIA. **USA -- WAVE FIELD MODIFICATIONS BY BATHYMETRIC ANOMALIES** WITH GRADUAL TRANSITIONS IN DEPTH: A REVIEW -- INVERSE METHODOLOGY FOR COASTAL WAVE DATA ASSIMILATION -- WAVE CELERITY ESTIMATION AND DEPTH INVERSION USING LINEAR FEATURE **EXTRACTION FROM NEARSHORE VIDEO IMAGES -- BATHYMETRIC ESTIMATION BASED ON WAVE REFRACTION PATTERNS -- WAVE** PROPAGATION OVER A SHALLOW MUDDY SHELF: A FIELD EXPERIMENT -- NUMERICAL AND EXPERIMENTAL STUDY ON WAVE PROPAGATION **OVER MUD -- IRREGULAR WAVE TRANSFORMATION ON MUD PROFILES** INCLUDING THE FLUIDIZATION OF MUD LAYER -- DAMPING OF GRAVITY WAVES BY FIELDS OF FLEXIBLE VEGETATION -- THREE-DIMENSIONAL MODELING OF AIR-SEA INTERACTION -- IMPROVED SHALLOW-WATER SPECTRAL WAVE MODELING -- IMPLEMENTATION AND TEST OF IMPROVED METHODS FOR EVALUATION OF NONLINEAR QUADRUPLET INTERACTIONS IN A THIRD GENERATION WAVE MODEL -- MODELLING AND MEASURING WAVES IN COASTAL WATERS -- WAVE TRANSFORMATION IN FRONT OF THE DUTCH COAST. APPLICATION OF ADJOINT WAM TO NOWPHAS WAVE OBSERVATION DATA FOR ESTABLISHMENT OF REASONABLE WAVE OBSERVATION NETWORK' -- WAVE HEIGHT BACKGROUND ERRORS SIMULATION AND FORECASTING VIA STOCHASTIC METHODS IN DEEP AND INTERMEDIATE WATERS -- A REVISED SYSTEM FOR LONG-TERM WAVE HINDCASTING AND ITS APPLICABILITY -- WAVE REGIME CHARACTERIZATION ON THE PORTUGUESE COAST USING HINDCAST AND WAVE PROPAGATION MODELS -- LONG-TERM PREDICTION OF NEARSHORE WAVE CLIMATE WITH AN APPLICATION TO CLIFF EROSION -- MEDIUM-TERM WAVE AND CURRENT MODELLING FOR A MESOTIDAL WADDEN SEA COAST -- A MODEL FOR DEFORMATION OF LINEAR WAVES ON A CURRENT WITH **ARBITRARY REFLECTION/TRANSMISSION BOUNDARIES -- NUMERICAL** MODELING OF WAVE-CURRENT INTERACTION IN TIDAL AREAS USING

AN UNSTRUCTURED FINITE VOLUME TECHNIQUE -- A NUMERICAL STUDY OF COUPLING OF WAVES WITH A CURRENT OVER CUT-CELL MESH -- ESTIMATING FREAK WAVE OCCURRENCE IN THE AGHULHAS CURRENT WITH SWAN -- TYPHOON EARLY WARNING SYSTEM BASED ON A COUPLED ATMOSPHERE-OCEAN-WAVE MODEL -- WAVE HEIGHT LONG TERM PREDICTION BASED ON THE USE OF THE SPREAD PARAMETER -- FREAK WAVE PREDICTION FROM DIRECTIONAL SPECTRA -- A BOUNDARY ELEMENT SOLUTION APPLIED TO THE DESCRIPTION OF EXTREME WAVES IN COASTAL WATERS -- ESTIMATION OF EXTREME WAVE CONDITIONS FROM HINDCAST SIMULATIONS WITH APPLICATION TO THE WAVE CLIMATE ALONG FRENCH COASTS -- GENERATION OF EXTREME WAVE CONDITIONS FROM AN ACCELERATING TROPICAL CYCLONE -- AN EXTREME VALUE MODEL FOR WAVE CLIMATE CONSIDERING DURATION AND SEASONALITY -- NUMERICAL SIMULATION OF EXTREME EVENTS FROM FOCUSED DIRECTIONALLY SPREAD WAVEFIELDS -- NON-GAUSSIAN PROPERTIES OF SURFACE ELEVATION IN CROSSING SEA STATES IN SHALLOW WATER --PROBABILISTIC ANALYSIS OF TYPHOON INDUCED HYDRAULIC BOUNDARY CONDITIONS FOR SUO-NADA BAY -- EXTREME WAVES REVISITED. GENERATION OF REFLECTION-FREE WAVES IN A NUMERICAL FLUME USING PID FEEDBACK CONTROL -- ACTIVE ABSORPTION OF WAVES IN A 30 BASIN -- RISK-BASED PREDICTIONS FOR SHIP UNDERKEEL CLEARANCE -- Swash, Nearshore Currents, and Long Waves -- SWASH ZONE BOUNDARY CONDITION: THE LONGSHORE FLOW. -- THE INFLUENCE OF THE NEARSHORE BATHYMETRY ON THE EVOLUTION OF BREAKING WAVE-INDUCED MACROVORTICES -- FLUID ACCELERATION IN THE SWASH ZONE -- OPTICAL MEASUREMENTS OF SWASH KINEMATICS -- MODELING INNER SURF HYDRODYNAMICS DURING STORM SURGES -- SWASH ZONE CHARACTERISTICS AT OCEAN BEACH, SAN FRANCISCO, CA -- BORE-DRIVEN SWASH ON BEACHES: NUMERICAL MODELING AND LARGE-SCALE LABORATORY EXPERIMENTS -- AIR-BUBBLE MEASUREMENTS OF THE SURF ZONE BREAKING WAVES BY BUBBLE TRACKING VELOCIMETRY -- A NOTE ON SETUP SENSITIVITY AND PREDICTION ACCURACY -- THREE DIMENSIONAL NUMERICAL SIMULATIONS OF WETTING AND DRYING BED DUE TO TIDAL CURRENTS USING FRACTIONAL STEP METHOD -- ESTIMATION OF TIME-DPENDENT WAVE SET-UP HEIGHT IN A RIVER ENTRANCE -- A 2DH IMPLICIT MODEL TO NUMERICALLY STUDY HYDRODYNAMICS AND SEDIMENT TRANSPORT TRENDS OF A REAL SHALLOW TIDAL EMBAYMENT: THE ARCACHON LAGOON (FRANCE) -- A SIMPLE AND EFFICIENT WELL-BALANCED MODEL FOR 2DHBORE PROPAGATION AND RUN-UP OVER A SLOPING BEACH -- CALCULATION OF INFRAGRAVITY EDGE WAVE ALONG A LONG AND STRAIGHT COAST -- A NEW LOOK AT WAVE GROUP FORCED NEAR SHORE CIRCULATION -- Quasi-3D Nearshore Circulation Equations: a CL-Vortex Force Formulation -- NUMERICAL MODELING OF ALONGSHORE SURF AND SWASHZONE CURRENTS -- THE MIDDLE WAY OF SURF MODELING -- Wave-averaged and Wave-resolving Numerical Modeling of Vorticity Transport in the Nearshore Region: the SANDYDUCK Case Study -- VIDEO OBSERVATIONS OF LONGSHORE

CURRENTS, MYRTLE BEACH, SOUTH CAROLINA. VERY LOW FREQUENCY RIP CURRENT PULSATIONS DURING HIGH-ENERGY WAVE CONDITIONS ON A MESO-MACRO TIDAL BEACH --AUTHOR INDEX -- SUBJECT INDEX -- Coastal Engineering 2006 Volume 2 -- Title page -- Copyright -- Foreword -- Proceedings Dedication --Acknowledgments -- Sponsorship -- CONTENTS -- OBSERVATIONS OF CROSS SHORE INFRAGRAVITY ENERGY AND RELATED PULSATING BOTTOM CURRENTS -- A RIP CURRENT FORECASTING SYSTEM --

|                    | VIDEO-BASED IMAGE PROCESSING OF LABORATORY-SCALE<br>RIPCURRENTS CHARACTERISTICS OF RIP CURRENT ON LARGE CUSPS<br>AN EVALUATION OF INEXPENSIVE HANDHELD GLOBAL POSITIONING<br>SYSTEMS FOR POSITION AND VELOCITY ESTIMATES SEICHING IN A<br>LARGE WAVE FLUME EXPERIMENTAL AND NUMERICAL<br>INVESTIGATIONS OF FORCED OSCILLATIONS IN RECTANGULAR TANKS<br>ATMOSPHERICALLY GENERATED LARGE-SCALE WATER-LEVEL<br>FLUCTUATIONS IN A CLOSED BASIN LARGE AMPLITUDE SEICHE IN ST.<br>JOSEPH BAY, FL OBSERVATIONS AND IMPLICATIONS<br>CHARACTERISTICS OF SEICHES IN THE PORT OF ROTTER DAM DURING<br>DESIGN STORM CONDITIONS 3D NON-HYDROSTATIC MODELING OF<br>BOTTOM ANDBANK STABILITY SUBJECTED BY SHIP PROPELLER JETS<br>NUMERICAL MODELING OF PASSING VESSEL IMPACTS ON BERTHED<br>VESSELS AND SHORELINE SHIP MOTION MODELING IN LOS ANGELES<br>AND LONG BEACH HARBORS CHARACTERISTICS OF MOORED SHIP<br>OSCILLATIONS DUE TO LONG-PERIOD WAVES BASIC PERFORMANCE<br>OF LONG-WAVE ABSORBING SYSTEM USING SEAWALLS FIELD<br>MEASUREMENTS OF HARBOUR RESONANCE AT MARINA DI CARRARA<br>LONG WAVE OSCILLATIONS INSIDE THE GIJON HARBOR. IMPLICATIONS<br>FOR RISK IN HARBOR OPERATIONS OBSERVATION OF THE KUROSHIO<br>CURRENT IN SOUTHWEST EAST CHINA SEA BY LONG-RANGE OCEAN<br>RADAR CHARACTERISTICS OF ABNORMAL HIGH STORM SURGE ON<br>THE COASTS FACING THE OPEN SEA A HURRICANE WAVE AND SURGE<br>FORECASTING SYSTEM IN HAWAII Real-Time and Probabilistic<br>FORECASTING SYSTEM IN HAWAII REAL-TIME AND PROPAGATION FORECAST OF STORM SURGE IN THE<br>SETO INLAND SEA. |
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| Sommario/riassunto | This Proceedings contains 445 papers presented at the 30th<br>International Conference on Coastal Engineering, which was held in San<br>Diego, California, USA, 3-8 September 2006. The Proceedings is<br>divided into five parts: Waves; Swash, Nearshore Currents, and Long<br>Waves; Coastal Management, Risk, and Ecosystem Restoration;<br>Sediment Transport and Morphology; and Coastal Structures. The<br>individual papers cover a broad range of topics including theory,<br>numerical and physical modeling, field measurements, case studies,<br>design, and management. These papers provide engineers, scientists,<br>and planners st   |