Proceedings of Civil Engineering in the Ocean VOL.12 1996

TIME-DEPENDENT WAVE EQUATION CONSIDERING CURRENTS AND	Hajime MASE, Hiroshi	1-6
RAPIDLY-VARYING BOTTOM TOPOGRAPHY	SAKAKIBARA, Toyoaki MISHIMA	
BOUNDARY INTEGRAL WITH DOUBLET SINGULAR FUNCTION IN BEM	K *** NOMUDA >/ L: 04T0	7-12
OPEN BOUNDARY FOR HORIZONTAL 2-D WAVE ANALYSIS WITH	Keiji NOMURA, Yukio SATO,	13-18
BOUNDARY ELEMENT METHOD SHIP COLLISION ACCIDENTS AND SIMULATION OF SMALL SHIP COLLISION TO FENDER SYSTEM OF BRIDGES	Kenichiro HAMANAKA Satoru SHIRAISHI, Ryouji NAITHO	18-188
AN ANALYSIS OF WAVE FIELDS AROUND A FLEXIBLE SHEETS STRUCTURE WITH GREEN FUNCTION2-D AND 3-D	Makoto SAKIKAWA, Yukio SATO, Kenichiro HAMANAKA	19-24
MORISON'S COEFFICIENT CD,CM AND FLUID FORCE ON A CIRCULAR CYLINDER WITH SEPARATION IN WATER WAVES	Yukio SATO, Shinya OKUMURA, Kenichiro HAMANAKA	25-30
TIME-VARYING VELOCITY FIELD OF BREAKING WAVE ON SUBMERGED BREAKWATER DUE TO UNDERTOW	Masato MINAMI	31-35
MEAN FLOW AND TURBULENCE IN A SURF ZONE	Yasunori WATANABE, Norihiro MORI, Mikio KUROKI, Hiroshi	37-42
THE EXPERRIMENTAL STUDYT ON THE SHOCK PRESSURE DUE TO BREAKING WAVE ON A STEEP SLOPE SEA BED	Kazuo KATAHIRA, Akira SASADA, Akira nakai	43-47
EXPERIMENTAL STUDY ON INTERRACTION AMONG WAVES, CURRENTS AND BOTTOM TOPOGRAPHY	Md.Hasanat ZAMAN, Hiroyoshi TOGASHI	49-54
ANNUAL MEAN WAVES FOR THE LITTORAL DRIFT FORMULA	Akira MANO, Muhammad HASANUDIN, Masaki SAWAMOTO	55-59
HYDRODYNAMIC PRESSURE ON TWO DIMENSIONAL ODY WITH REFLECTIVE CONDITION AT SEA BOTTOM DURING EARTHQUAKES	NAKAMURA	61-66
EXPERIMENTAL STUDY ON WAVE-GENERATED SOUND FROM A BOTTOM SEATED SUBMERGED STRUCTURE	Norimi MIZUTANI, Wataru KOJIMA, June-q KIM, Koichiro IWATA	67-72
EXPERRIMENTAL STUDY ON WAVE CONTROL BY VERTICAL PERMEALE BREAKWATER OF HORIZONTAL SLIT TYPE	Minoru OCHIAI, Shigekatsu ENDO	73-78
DEELOPEMENT OF WAVE DISSIPATING CASSON WITH THE FUNCTION OF EXCHANGE	Yoshio SHIOZAKI, Soichiro ISOZAKI, Shigeru NAKAMURA,	79-84
	Hiroshi HORIUCHI	
STUDY ON THE APPLICATION OF A STEP-SHAPED SLIT CAISSON FOR PRACTICAL USE -ABOUT THE REFLECTION COEFFICIENT-	Sung MO AHN, Ryuichi FUJIWARA, Katsuhiko KURATA, Shohachi KAKUNO	85-90
RELIABILITIY AND SCALE EFFECT ON MODEL EXPERIMENT OF WAVE TRANSFORMATION BY PERMEABLE BREKWATER	Yasuo IDA, Akihiro SUGAI, Satoru KOBAYASHI	91-96
EXPERIMENTAL STUDY ON REDUCING EFFECT OF WIRE-MAT-TYPE WIND FENCE ON WIND AND WAVES	Yoshio MURAKI, Takao YABUSHITA, Hiroshi SAEKI	97-102
	Tetsuya HAYAKAWA, Kimihiko	
WARNING SYSTEM AGAINST WAVE OVERTOPPING ON PROMENADEBREAKWATERS	ENDOH, Takahiko SASAJINA, Yuzo MIZUNO, Kenichi UKITSU	103-108
	Yoshio TOHARA, Nobuo TAKAGI,	
DEVELOPMENT OF SUBMERGED BREAKWATERS COMPOSED OF STEEL	Yuhei MATSUBARA, Koichi	100 111
FRAME AMOR UNITS	MASUDA, Research Association of	109-114
	submerged breakwaters by steel	
NUMERRICAL ANALYSIS AND EXPERIMENT ON WAVE DEFORMATION OVER	frame amor units Shigeru YOSHIDA, Norio	
A SUBMERGED BREAKWATER	HAYAKAWA, Tokuzou	115-119
	Hiroyasu KAWAI, Takumi KUDOUH,	
EXPERIMENT ON WAVE TRANSFORMATION AROUND SUBMERGED BREAKATER	Tatsuya MASUMOTO, Isao	121-126
DILAINTER	UEHARA, Tetsuya HIRAISHI	
BASIC STUDY OF NEW-TYPE SUBMERGED BREAKWATER EFFECTIVE IN	Makoto WADA, Mitunobu	107 100
PREVENTING RISE IN WATER LEVEL	SAKAMOTO, Yoshiki HARAGUCHI,	127-132
	Isao IRIE, Shoichi HIROHATA Koichi OMORI, Keizou	
THE FIRST CONSTRUCTION OF SPS (SINGLE PILE STRUCTURE) IN JAPAN	FUKUSHIMA, Mineyuki SATO,	133-138
THE PERSON OF STREET OF STREET FILE OF TOO TOTAL THE OFFICE OF THE OFFICE OFFIC	Yoshio ODAKA, Nobuyuki	100 100
DISIGN AND CONSTRUCTION OF AN EMERGENCY CONTAINER WHARF IN	Ken OIKAWA, Yoshiki TAKAOKA,	100 144
THE RECONSTRUCTION OF THE PORT OF KOBE	Satoshi MAEDA, Kiyoshi	139-144
APPLICATION OF A JACKET STRUCTURE TO THE REPAIR OF DAMAGED	Ken OIKAWA, Katsumi IKEGAMI,	
PIER BY HYOGOKEN-NAMBU EARTHQUAKE -DESIGN AND INSTALLATION	Hajime MARUOKA, Takasi	145-150
OF JACKET TYPE PIER FOR NAKATOTTEI IN KOBE PORT-	MATSUO, Kunihiro YAMAMOTO	
EFFECTIVENESS OF AN ARRAYOF OFFSHORE BREAKWATERS FOR IRREGULAR WAVES	Takayuki NAKAMURA, Satoshi MORITA, Kazuhiro IWASAKI	151-156
WAVES RESPONSE OF BRIDGE WITH INDEPENDENT COLUMN-TYPE	Eiichi WATANABE, Tomoaki	:
FLOATING FOUNDATIONS	UTSUNOMIYA, Takemasa SOUMA	157–160
FIELD OBSERVATION OF SHIP MOTIONS USING 3D TRACKER	Katsuhiko SAITO, Masayoshi KUBO, Shigeo SASAZAWA	161-166
METEOROLOGICAL AND OCEANOGRAPHICAL FORECAST ON A OFFSHORE	Sokichi KAJI, Masao MUTAGUCHI,	
OIL STORAGE TERMINAL AND DEVELOPMENT OF AN ACTIVE MASS DAMPER FOR A SUSPENDED LOAD ON A FLOATING CREANE	Toshiyuki SUGIHARA, Yoshihide MIYAMOTO	167-172

MOORING COUNTERMEASURES FOR REDUCTION OF SHIP MOTIONS DUE TO THE LONG PERIOD WAVES	Takechiho TABATA, Atsuhiro TADOKORO, Yutaka YAMAGUCHI, Shinichi TAKAHASHI, Satoru SHIRAISHI, Gou ISHIMI, Koichi NAGAMATSU	173–178
MOVING MECHANISM OF BUOY SYSTEM WHICH FOLLOWS TO THE WAVE	Shunsuke NOGITA, Takashi	179-182
DIRECTION EFFECT OF WAVE DRIFT AND DAMPING FORCES ON THE DYNAMICS OF A FLOATING BREWATER	HAGIYA Takayuki NAKAMURA, Sadatoshi OHMORI, Yoshihiko IDE	189-194
BREAKWATER EFFECIENCY AND INFLUENCE OF RIVER CURRENT DUE TO FLOATING BREAKWATER SETTED NEAR RIVER-MOUTH	Kazukuni FUKUDA, Yasutada TAKAMARU, Yoshikazu YOSHIDA, Tadasu KUSAKA, Tatsuo HIRAOKA, Hideyuki HOKIMOTO	195–200
UTILLIZATION STUDY ON WAVE POWER EXTRACTING CAISSON BREAKWATER -THE SECOND STAGE OF FIELD EXPERIMENT-	Mitutaka OTSU, Atuhiro TADOKORO, Shigeo TAKAHASHI, Kyohiko KIZIMA, Toshinao ANZAI	201-206
CASE STUDIES ON WAVE ENAGY UTILLIZATION SYSTEMS -DEVELOPMENT OF WAVE POWER EXTRADTING CAISSON BREAKWATERS-	Kyouhiko KIZIMA, Toshinao ANZAI, Toshio KOMIYA, Toshirou HORIE, Nobuo KONDOU, Hiroo MORITA, Shigeo TAKAHASHI	207-212
CHARACTERISTICS OF LOSS AT RECTIFYING VALVE (WATER-VALVE) IN A WAVE POWER CONVERSION SYSTEM WITH WATER-VALLVE RECTIFER	Eisuke SATO, Eiji SATO, Masaki SAWAMOTO	213-218
DYNAMIC RESPONSE OF SEABED AROUND CAISSON STRUCTURE WITH SUCTION	Tomiya TAKATANI, Yoshihiko MAENO, Shigeo TAKAHASHI, Kenitiro SHIMOSAKO	219-224
EFFECT OF SPECIMEN SIZE ON CONSOLIDATION PARAMETERS IN STANDARD OEDOMETER TESTS	Takaharu SHOGAKI, Kazumi MIWA	225-229
IN-SITU CONSOLIDATION PARAQMETERS AND PREDICATION OF SETTLEMENT BEHAVIOR	Takaharu SHOGAKI, Yoshikazu MARUYAMA	231-236
STRENGTH PROPERTIES OF SAMPLE USING A SMALL DIAMETER WITH TWO CHAMBER HYDROULIC PISTON	Takashi SUDOH	237-241
EXXPERIMENTAL STUDY ON CHARACTERISTICS OF LOCAL SCOUR AND EMBEDMENT OF FISH REEF BY WAVE ACTION	June-q KIM, norimi MIZUTANI, Natsuki JINNO, Kiyoshi FURUKAWA, Koichiro IWATA	243-247
EXPERIMENTAL STUDY ON PORE WATER PRESSURE AND SEDIMENT TRANSPORT BY OSCILLATORY FLOW WITH PRESSURE CHANGE	Toshihiko YAMASHITA, Shinichi ITO, Akira YAMAMOTO, Takaaki MINAMIMURA, Mkio KUROKI	249-253
A LINEAR ANALYSIS OF WAVE BEHAVIOUR OUTSIDE /INSIDE POROUS OCCURRENCE PROBABILITY OF TIDAL LEVEL AND ITS EFFECT ON STABILITY OF BREAKWATER	Shohachi KAKUNO, Keiichi Hiroyasu KAWAI, Hideyoshi FUJISAKU, Yasumasa SUZUKI	255-260 261-266
EXPERIMENT ON COUNTERMEASURE TO LONG PERIOD WAVE IN HARBOR	Hideyoshi FUJISAKU, Haruhiro MARUYAMA, Tetsuya HIRAISHI	267-272
HYDRULIC PROPERTIES OF DOUBLY-PLACED SUBMERGED RUBBLE MOUNDS	Masaki SATO, Kunihiro KAWAI, Taisuke KITAMURA, Syuichi MIYABE, Hiroshi SAEKI	273-278
FIELD DEMONSTRATION TEST ON A SEMI-CIRCULAR CAISSON BREAKWATER	Hiroyuki YAMASITA, Makoto WADA, Tatuo OOKAMA, Ikumi KOBAYASHI, Katumi TANAKA,	279-284
THE EXPERIMENTAL STUDY ON CHARACTERISTSTICS OF WAVE OVERTOPPING OF GENTLE SLOPE SEAWALLS WHICH WAVE DISSIPATING BLOCKS	Kazuo KATAHIRA, Akira SASADA, Hiroshi SAKAMURA Takanori MORIKAWA	285-290
FIELD SURVEY OF WAVE OVERTOPPING ON SEAWALL COVERED WITH ARMOR UNITS	Tsutomu SAKAKIYAMA, Ryoichi KAJIMA, Sumio IMAI, Takuzo SHIMIZU, Hiroyuki KATAYAMA	291-296
EFFECT OF SCALE RATIO OF WAVE AND STRUCTURE TO MECHANISM OF WAVE BREKING DUE TO SUBMERGED STRUCTURES	Koichiro IWATA, Koji KAWASAKI, Toshihiro ANDOH	297-302
FIELD MEASSUREMENT OF THE AERIAL DISTRIBUTION OF SEA-SALT PARTICAL IN THE NORTHERN KYUSHU REGION	Masatoshi KATAYAMA	303-308
THE MULTIPURPOSE USE OF WATER AREAS IN FISHING PORTS AND RELATED CHALLENGES	Sadamitsu AKEDA, Atsumi FURUYA, Akira NAGANO, Isao	309-314
STUDY OF THE ECOSYSTEM-FRIENDLY FISHING PORT AND VILLAGE CONSTRUCTION AND IMPROVEMENT METHOD	Izumi KODAMA, Koukiti KOYAMA, Sanji KIDA	315-320
UTILIZATION STATUS AND VISITORS' PERCEPTION OF INCIDENTAL FACILITIES IN URBAN WATERFRONT AREAS -MARINA AND TENNIS COURT QUESTIONNAIRE SURVERY RESULTS-	Masatoshi KATAYAMA	321-326
A STUDY OF PRICING MARINA SLIP RENTAL FEES FOR EACH ADMINISTRACTIVE DISTRICT	Hideaki WATARAI	327-332
BEARING CAPACITY OF ICE SHEET UNDER THE VARIOUS LOAD CONDITIONS	Yasuhiro OKUBO, Hideki HONDA, Toshihiko YAMASHITA, Mikio KURIOKI, Hiroshi SAEKI	333-336
IMPACT ICE LOAD ACTING ON FLAT FLAT PLATE DUE TO WAVE ACTION	Masakuni HANADA, Kunihiro KAWAI, Masaki SATO, Tetsuya HAYAKAWA, Hiroshi SAEKI	337-341

	T-ILil CACA IIMA KiLi	
IMPACT ICE LOAD ACTING ON PILE STRUCTURE	Takahiko SASAJIMA,,Kunihiro KAWAI, Masaki SATO, Masakuni HANADA, Hiroshi SAEKI	343-347
VERTICAL ICE LOADS ACTING ON UPRIGHT STRUCTURES WITH AN ELLIPTICAL CROSS-SECTION	Akifumi NISHIHATA, Shinji KIOKA, Kyoichi NARITA, Takashi TERASHIMA, Hiroshi SAEKI	349-354
BEARING CAPACITY OF ICE SHEETS UNDER THE CONDITION OF PARTIAL FLOODING ARUOND A LOAD	Hideki HONDA, Yasuhiro OKUBO, Shinji KIOKA, Takashi TERASHIMA, Harukuni TACHIBANA, Hiroshi	355-359
UNIAXIAL COMPRESSIVE STRENGTH OF SEA ICE ALONG OKHOTSK SEA OF HOKKAIDO AND SAKHALIN	OHTSUKA, Mikio KUROKI, Hiroshi SAEKI	361-366
MECHANICAL MODELL OF ICE GOUING AND ITS ASPPLICABILIT	Shinji KIOKA, Yuriko TERAI, Hideyuki NISHIMAKI, Atsumi MATSUDA, Shinichi TABAT,	367-372
ICE INFLUENCE ON THE FLOATING STRUCTURES IN COLD REGIONS	Takahiko SASAJIMA, Tetsuya HAYAKAWA, Takashi TERASHIMA, Minoru YOSHIDA, Shouji HAMAOKA, Hiroshi SAEKI	373-378
ON THE INTERACTION OF STRUCTURE WITH ICE SHEET IN MEDIUM SCALE FIELD INDENTATION TESTS	Takahiro TAKEUCHI, Masakazu AOSHIMA, Hisao MATSUSHITA, Naoki NAKAZAWA, Takashi TERASHIMA, Satoshi AKAGAWA, Masafmi SAKAI, Hiroshi SAEKI	379-384
ESTIMATION OF WATER DEPTH BY USING CRRELATION BETWEEN THE SEA-DEPTH AND REMOTELY SENSED DATA A STUDY ON EACH CHANGES IN A POCKET BEACH - AN EXAMPLE OF	Eiichirou MAEMA, Masatoshi MORI, Keinosuke GOTOH Takaaki UDA, Koji SEKINISHI,	385-390
ASAMOGAWA COAST IN KYOTO PREFECTURE -	Youichi NISHIOKA Takaaki UDA, Kouji YAMOMOTO,	391-96
A NOTE ON BEACH CHANGES DUE TO WIND WAVES IN LAKE SHINJI	Kouji TOGAWA	397–402
STUDY ON BEACH NOURISHEMENT AND STABLE SHORELINE ON NUMAZU- USHIBUSE COAST IN SHIZUOKA PREFECTURE A NOTE ON FORMATIVE PROCESS OF SCARP	Takaaki UDA, Masahisa TOTSUKA, Katsushige KAKIICHI Takaaki UDA, Masumi SERIZAWA	403-408 409-414
COASTAL PROCESS IN IRAKO-NISHINOHAMA BEACH	Noritaka MURAKAWA, Shingo AOKI, Koichiro IWATA	415-420
SEA-LEVEL CHANGE ALONG THE COAST OF SEA OF JAPAN (EAST SEA) AND COASTAL EROSION DUE TO SEA-LEVEL RISE	Chang bae SON, Hideaki NODA, Yuhei MATSUBARA, Masamitsu KUROIWA, Hyo jin KANG	421-426
ESTIMATION METHOD FOR CHARACTERISTICS OF COASTAL IN THE ISE BAY	Junji NAKAYAYA, Kiyoshi WADA, Kosuke ONOGI	427-432
ON THE RELATION BETWEEN RIVER MOUTH IMPROVEMENT AND COASTAL PROTECTION – AN EXAMPLE OF AYAREGI COAST IN YAMAGUCHI	Takaaki UDA, Minoru SHIGEEDA, Ryuhei HONDA	433-438
RIVER MOUTH IMPROVEMENT USING ARTIFICAIL REEF - AN EXAMPLE OF KINOTO-DAINICHI RIVER -	Takaaki UDA, Shigeo MINAMOTO, Shinji IGARASHI, Katsushige KAKIICHI, Shinjiro OMORI	439-443
A CASE STUDY ON INFLUENCE OF CONSTRUCTION OF DETACHED BREKWATER AND HARBOR BREAKWATER TO RIVER MOUTH BAR	TakaakiUDA, Toshitsugu SAKO, Mitushisa NOMURA	445-450
THE URBAN ENVIRONMENTAL SIGNIFICANCE OF THE TOKIWA-DEJIMA WATER FRONT PARK PROJECT IN NAGASAKI HARBOR	Keninosuke GOTOH, Muneharu YOKOMATSU	451-456
A STUDY ON BOTTOM ORGANISMS INHABITATION OF A SEASIDE PARK IN ENCLOSED WATER	Shinichi WANO, Masatoshi YOSHIDA, Keiichro TERANAKA Masabumi SETO, Izumi SAKURAI,	457462
HABITABLE WAVE CONDITION FOR PANADALUS KESSERI	Gaku MATSUOKA, Toshihiko YAMASHITA	463-466
CRITICAL FLOW CONDITIONS FOR RELEASE AND BURROWING OF BIVALVES IN OSCILLATORY FLOWS	Toshiko YAMASHITA, Hiroya KINOSHITA, Akira WADA, Sadamitsu AKEDA, Kenji YANO	467-472
GROUND ENVIRONMENT OF SHORT-NECKED CLAM FISHING GROUNDS IN COLD REGIONS	Takao AKUTSU. Kenji YANO, Sadamitsu AKEDA	473-478
FIELD INVESETIGATIONN ON THE CONSTRUCTION OF TIDE POOL AIMING AT COEXISTENCE WITH MARINE ORGANISMS	Masao INOUE. Tadashi TETSUKAWA, Hiroaki SHIMADA,	479-484
STUDY OF PRODUCTIVE ALGAE REEF(BIOUNIT) USING COAL ASH WASTES	Hideto NARUMI, Hajime KOBAYASHI, Kiyoto KOGANEZAKI, Shoji KAWASHIMA	485-490
EVALUATION OF MARINE ENVIRONMENT BASED ON GROWTH OF MARINE ORGANISMS	Motoyasu ISHIKAWA, Yoshihiko MAENO, Yoshimichi TANAKA, Syosaku HORI, Hirofumi	491-496
A STUDY ON ENVIRONMENTAL SUBMERGED BREAKWATERS	Hideaki OKUZONO, Katsuyoshi TAKAHASHI, Takayuki ABE, Tateshi MAEDA, Hiroake GAHARA	497-502
RELATONSHIP BETWEEN PHYSICAL ENVIRONMENT AND ECOSYSTEM IN ROCKY SHORES	Kimihito ITO, kenji YANO, Sadamitsu AKEDA, Tadashi KAWAI, Yukio AGATSUMA	503-506

INVESTIGATION OF SEA WATER EXCHANDGE IN THE OMURA BAY
SATELLITE REMOTE SENSING TECHNIQUE AND A TEST FOR CONFIRMING
SIMILARITY OF A NUMERICAL SIMULATION SYSTEM

Ryuji HYODO, Keinosuke GOTOH,
Bynugdug JUN

507-512