

## Capítulo 7. Bibliografía

- Baird, A. J. and Horn, D. P. (1996) Monitoring and modeling groundwater behavior in sandy beaches. *Journal of Coastal Research*, 12(3): 630-640.
- Baird, A. J. and Horn, D. P. and Maason, T. E. (1998) validation of a Boussinesq model of beach groundwater behaviour. *Marine Geology* (148): 55-69.
- Baird, A. J., Mason, T. E., Horn, D. P. and Baldock, T. E. (1997). Monitoring and modeling groundwater behaviour in sandy beaches as a basis for improved models of swash zone sediment transport. In: E. B. Thorton (Editor), *Coastal Dynamics*. ASCE, New York, pp. 774-783.
- Basco, D. R. (1985) A qualitative description of wave breaking. *J. Waterw., Port, Coastal Ocean Eng.* 111(2), 171-188.
- Battjes, J. A. (1974) Computation of set-up, longshore currents, run-up and overtopping due to wind-generated waves. Delft Univ. Tech. PhD-dissertation.
- Battjes, J. A. , and J. P. F. M. Janssen (1978) Energy Loss and Set-up due to Breaking of Random Waves, Proc. 16 th Intl. Conf. Coastal Eng., ASCE, Hamburg, 1978.
- Berkhoff, J.C.W., (1982) Refraction and diffraction of water waves -- wave deformation by a shoal. Comparison between computations and measurements. Report on mathematical investigation. Delft Hydraulics Laboratory W 154 Part VIII.
- Calantoni, J. and Puleo, J.A., (2006) Role of pressure gradients in sheet flow of coarse sediments under sawtooth waves. *Journal of Geophysical Research*, 111(C1): C01010 doi:10.1029/2005JC002875.
- Chorin, A. J. (1968) Numerical solution of the NAvier-Stokes equations, *Math. Comput.* 22, 745-762.
- Christensen, E. D., Walstra, D.J. and Emerat, N. (2002)Vertical variation of the flow across the surf zone. *Coastal Eng.* 45, pp. 169-198
- Cokelet, E. D. (1977) Steep gravity waves on arbitrary uniform depth. *Phil trans. Roy. Soc. Lond.*, 286, 183-230
- Cowell, P. J. y Thom, B. G. (1994) Morphodynamics of coastal evolution. En: R. W. G. Carter y C. D. Woodroffe (editors), *Coastal Evolution*, Cambridge University Press, Cambridge, pp: 33-86
- Cowen E. A., Sou I. M., Liu, L. F. and Raubenheimer, B. (2003) PIV measurements within a laboratory generated swash zone. *ASCE J. Eng. Mech.* 129, 1119-1129.
- Cox, D. T. and Anderson, S. L. (2001) Statistics of intermittent surf zone turbulence and observations of large eddies using PIV. *Coastal Eng.* 43, 121-131.
- Cox, D. T., Hobensack, W. and Sukumaran, A. (2000) Bottom stress in the inner surf and swash zone. In: B. Edge (Editor), 27 th International Conference on Coastal Engineering. ASCE, Sidney, Australia, pp. 108-119.
- Cox, D. T., N. Kobayashi, and A. Okayasu (1995) Experimental and numerical modeling of surfzone hydrodynamics. Res. Rep. No. CACR-95-07, University of Delaware. 293 pp
- Dally, W. R. (1990). Random Breaking Waves: AClosed-form Solution for Planar Beaches, *Coastal Eng.*, 14; 3,233-265.
- Dally, W. R. (2000) Roller momentum thickness and residual turbulence. In Proceedings of the 27 th Conference Coastal Engineering. American Society of Civil Engineers, pp. 59-69.

- Dally, W. R., Dean, R. G. and Dalrymple, R. A. (1985) Wave height variation across beaches of arbitrary profile. *Journal of Geophysical Research*, Vol 90, N° C6, pp. 11917-11927.
- Dalrymple, R. A. (1975) A mechanism for rip current generation on an open coast. *Journal of Geophysical Research*, 80: 3485-3487.
- Dean, R.G. (1991) Equilibrium beach profiles: characteristics and applications, *J. Coast. Res.* 7 (1), pp. 53-84.
- Dingemans, M.W., Stive, M.J.F., Bosma, J., De Vriend, H.J. and Vogel, J.A., (1986) Directional nearshore wave propagation and induced currents. In: Proc. 20th Int. Conf. Coastal Eng. ASCE, pp. 1092-1106.
- Dingemans, M.W., (1987) Verification of numerical wave propagation models with laboratory measurements. HISWA verification in the directional wave basin. Delft Hydraulics Laboratory H 228, 4 volumes.
- Drake, T.G. and Calantoni, J., (2001) Discrete particle model for sheet-flow sediment transport in the nearshore. *Journal of Geophysical Research*, 106(C9): 19859-19868.
- Duncan, J. H. (1981) An experimental investigation of a wave breaking produced by a towed hydrofoil. *Proc. Roy. Soc. Lond A377*, 331-348.
- Ebersole, B.A. and Hughes, S.A., (1987) DUCK85 photopole experiment. *Misc. Pap.*, CERC 87- 18, US Army Eng. W.E.S., CERC.
- Elfrink, B. and Baldock, T. (2002) Hydrodynamics and sediment transport in the swash zone: a review and perspectives. *Coastal Engineering*, 45: 149-167.
- Elfrink, B., Hanes, D.M. and Ruessink, B.G., (2006) Parameterization and simulation of near bed orbital velocities under irregular waves in shallow water. *Coastal Engineering*, 53(11): 915-927.
- Fredsoe, J. and Deigaard, R. (1992) Mechanics of Coastal Sediment Transport. Advanced Series on Ocean Engineering, Vol. 3. World Scientific, Singapore, 369 pp.
- Foster D. L., Bowen, A. J., Holman, R.A. and Natoo, P. (2006) Field evidence of pressure gradient induced incipient motion, *Journal of Geophysical Research* 111 (C05) 10.1029/2004jc002863.
- Galvin, C. J. (1968) Breaker type classification on three laboratory beaches. *J. Geophys. Res.*, 73, 12.
- Garcia, N., Lara, J. L. Losada and J. L. Lara (2004) 2-D numerical analysis of near-field flow at low-crest permeable breakwaters. *Coastal Eng*, 51(10):991-1020.
- Goda, Y. (1970). A synthesis of braking indices, *Proc. JSCE*, No. 180, pp. 39-49 (en japonés).
- Goda, Y. (1975). Irregular wave deformation in the surf zone, *Coastal Eng. In Japan*, Vol. 18, pp. 13-26.
- Created, C.A., Skyner, D.J. and Bruce, T., (1992) Particle image velocimetry in coastal engineering laboratory. In: *Proc. 23rd Int. Conf. Coastal Eng.*, Venice. ASCE, pp. 212-225.
- Guanche, R., (2008) Análisis de la Funcionalidad y Estabilidad de Obras Marítimas mediante un Modelo Numérico Basado en las Ecuaciones de Reynolds. Tesis Doctoral, Universidad de Cantabria.
- Guanche, R., I. J. Losada and J. L. Lara (2009) Numerical analysis of wave loads for coastal structure stability, *Coastal Eng.* 56(5-6):543-558.
- Hansen, J. B. (1990) Periodic waves in the surf zone: Analysis of experimental dat. *Coast. Eng.*, 14-41.
- Harris, T. F. W. (1969) Nearshore Circulations; Field Observation and Experimental Investigations of an Underlying Cause in Wave Tanks, *Proceedings of Symposium on Coastal Engineering*, Stellenbosch, South Africa, 11 pp.

- Hattori, M. and T. Aono (1985) . Experimental study on turbulence structures spilling breakers. In the ocean surface (Toba and Mitsuyasu eds.) Reidel Publ. Comp., Dordrecht.
- Hirt, C. W. and Nichols, B. D. (1981) Volume of fluid vof method for the dynamics of free surface boundaries, J. Comput. Phys, Vol. 39 pp. 210-225.
- Hoefel, F. and Elgar, S., (2003) Wave-induced sediment transport and sandbar migration. Science 299, 1885-1887.
- Hotta, S. and Mizuguchi, M., (1980) A field study of waves in the surf zone. Coastal Eng. Jpn., 23: 59-79.
- Hotta, S., Isobe, M., Izumiya, T. and Enzawa, M., (1984). Breaking criterion on a natural beach, Proc. 31 st. Japanese Conf. on Coastal Eng., JSCE, pp. 44-48, (en japonés).
- Hsu, T.J., Hanes, D. M., (2004) Effects of wave shape on sheet flow sediment transport. J. Geophys. Res. 109 (C05025).
- Hsu, T. J., Sakakiyama, T. and Liu, P.L.-F. (2002) A numerical model for wave motions and turbulence flows in front of a composite breakwater. Coastal Eng. 46: 25-50.
- Hughes, M. G. (1992) Application of a non-linear shallow water wave theory to swash following bore collapse on a sandy beach. Journal of Coastal Research, 8: 562-578.
- Hughes, M. G. (1995) Friction factors for wave uprush. Journal of Coastal Research, 11(4): 1089-1098.
- Iversen, H. W. (1952). Laboratory study of breakers. In: Gravity waves, Nat. Bur. Stan., Wash DC., Circ no 521, 9-32.
- Iwagaki, Y. and T. Sakai. (1976). Representation of particle velocity of breaking waves on beaches by Dean's stream function. Memoirs of the Faculty of Engineering, Kyoto Univ. 38,1
- Iwata, K. and Tomita, T., (1992) Variation of potential and kinetic wave energy in surf zone. In: Proc. 23<sup>rd</sup> Int. Conf. Coastal Eng., Venice. ASCE, pp. 336-349.
- Johnson, J. W. (1956) Dynamics of nearshore sediment transport. Bull. Am. Assoc. Pet. Geol. Pp. 2211-2232.
- Komar, P. D. (1998) Beach Processes and Sedimentation, Upper Saddle River: Prentice-Hall.
- Kothe, D. B., Mjolsness, R. C. and Torret, M. D. (1991) RIPPLE: a computer program for incompressible flows with free surfaces. Los Alamos National Laboratory, Report LA-12007-MS.
- Lara,J.L., Garcia,N.,Losada, I.J. (2006a) RANS modelling applied to random wave interaction with submerged permeable structures. Coast Eng. 53, 395-417.
- Lara, J.L., Losada, I.J., Liu, P.L.F., (2006b). Breaking waves over a mild gravel slope: experimental and numerical analysis. J. Geophys. Res. 111 (C11019)
- Larson, M., Kraus, N.C., Wise, R.A., (1999) Equilibrium beach profiles under breaking and non-breaking waves. Coastal Engineering, 36(1), 59-85.
- Lemos, C. (1992) Wave breaking, a numerical study. Lecture Notes in Engineering vol. 71, Springer-Verlag, Berlin.
- Lin, P. (1998) Numerical modeling of breaking waves, Ph.D. thesis, Cornell Univ., Ithaca, N.Y:n
- Lin, P., and P. L.-F. Liu (1998) A numerical study of breaking waves in the surf zone, Journal of Fluid Mechanics 359, pp. 239-264
- Lin, P. and Liu, P. L.-F. (1998a) A numerical study of breaking waves. Journal of fluid mechanics, 359: 239-264.
- Lin, P. and Liu, P. L.-F. (1998b) Turbulence transport, vorticity dynamics and solute mixing under plunging waves in surf zones. Journal of Geophysical Research, 103(15): 15677-15694.
- Lin, P. and Xu, W. (2005) NEWFLUME: a numerical water flume for two-dimensional turbulent free surface flows. Journal of hydraulic research, 44 (1): 79-93.

- Lippmann, T.C. and Holman, R.A., (1991) Phase speed and angle of breaking waves measured with video-techniques. In: Proc. Coastal Sediments'91. ASCE, pp. 542-556.
- Losada, I. J., J. L. Lara, R. Guanche, and J. M. González-Ondina (2008) Numerical analysis of wave overtopping of high mound breakwaters, *Coastal Eng.*, 55(1), pp. 47-62, doi:10.1016/j.coastaleng.2007.06.003.
- Madsen, P.A., Sorensen, O. R. and Schäffer, H. A. (1997) Surf zone dynamics simulated by a Boussinesq type model. Part I. Model description and cross-shore motion of regular wave. *Coastal Engineering* 32, 255-287.
- Mason, T. and Coates, T.T., (2001) Sediment transport processes on mixed beaches: A review for shoreline management. *Journal of Coastal Research*, 17(3): 645-657.
- Massel, S. R. (1996) On the largest wave height in water of constant depth. *Ocean Engineering* 23: 553-573.
- McCowan, J. (1891). On the solitary wave, *Philosophical Magazine*, 5 th Series, Vol 36, pp 430-437.
- Miche, M. (1944) Mouvement ondulatorios de la mer. *Annales des ponts et chausse*, 114,25-78, 131-164, 270-292, 369-406
- Miche, R. (1951). Le pouvoir réfléchissant des ouvrages maritimes exposés à l'action de la houle, *Annales Ponts es Chaussees*, 121 e Année, pp. 285-319.
- Ministerio de Medio Ambiente y Recursos Naturales. (2010) Servicio Nacional de Estudios Territoriales. Servicio Oceanográfico Nacional/ Unidad de Geología Marina
- Mizuguchi, M. (1980) A heuristic model of wave height distribution in surf zone. Proc. 17 th Coastal Eng. Conf., ASCE, pp. 278-289.
- Mizuguchi, M., (1986) Experimental study on kinematics and dynamics of wave breaking. In: Proc. 20th Int. Conf. Coastal Eng., ASCE, pp. 589-603.
- Nadaoka, K., Hino, M. and Koyano, Y., (1989) Structure of the turbulent flow field under breaking waves in the surf zone. *J. Fluid Mech.*, 204: 359-387.
- Nadaoka , K. and T. Kondo (1982). Laboratory measurements of velocity field structure in the surfzone by LDV. *Coastal Engrg. Japan*, 25, 125-145
- Nair, R. B., Roelvink, J. A. and Southgate, H. N. (1990). Transition zone width and implication for modeling surf zonehydrodinamics. In: Proceedings of the 22 nd International Conference on Coastal Engineering, Delft. American Society of Civil Engineers, New York, pp. 68-81.
- Nelson, R., (1997). Height limits in top down and bottom up wave environments. Technical Note. *Coastal Engineering*. Vol. 32, n°2-3, pp. 247-254.
- Nielsen, P. (1997). Coastal groundwater dynamics. In: E. B. Thorton (Editor), *Coastal Dynamics*. ASCE, Plymouth, UK, pp. 546-555.
- Nielsen, P. and Turner, I.L. (2000) Groundwater waves and water exchange in beaches. In: B. Edge (Editor), 27 th International Conference on Coastal Engineering. ASCE, Sidney, Australia, pp. 2356-2363.
- Noda, E. K. (1972) Rip currents. In Proceedings of the 13 th Conference on Coastal Engineering. American Society of Civil Engineers, pp. 653-668.
- Okayasu, A. (1989) Characteristics of turbulence structures and undertow in the surf zone. PhD Thesis, Yokohama Nat. Univ.

- Osiecki, D. A. and Dally, W. R. (1996) The influence of rollers on longshore currents. In Proceedings of the 25 th Conference on Coastal Engineering. American Society of Civil Engineers, pp. 653-668.
- Ostendorf, D. W. and Madsen, O. S., (1979). An analysis of longshores currents and associates sediment transport in the surf zone, MIT Rep., Sea Grant, 79-130,169 pp
- Pedrozo-Acuña, A., (2005) Concerning swash on steep beaches, PhD Thesis, University of Plymouth, 226p.
- Pedrozo-Acuña, A. (2010) Procesos costeros y morfodinámicos de playas. Instituto de Ingeniería, UNAM. pp: 12-15,125-127
- Pedrozo-Acuña, A., Simmonds, D.J., Chadwick, A.J. and Silva, R., (2007) A numerical-empirical approach for evaluating morphodynamic processes on mixed and gravel beaches. Marine Geology, 241(1-2): 1-18.
- Pedrozo-Acuña, A., Simmonds, D.J., Otta, A.K. and Chadwick, A.J., (2006). On the cross-shore profile change of gravel beaches. Coastal Engineering, 53(4): 335-347.
- Pedrozo-Acuña, A., Simmonds, D.J., Reeve, D. E. (2008) Wave-impact characteristics of plunging breakers acting on gravel beaches, Marine Geology, 253,23-35.
- Pedrozo-Acuña, A., Torres-Freyermuth, A., Zou, Q., Hsu, T.-J., Reeve, D.E (2010) Diagnostic modelling of impulsive pressures induced by plunging breakers impinging on gravel beaches. Coastal Engineering 57, pp. 252-266.
- Pedrozo-Acuña, A., Torres-Freyermuth, A., Zou, Q., Hsu, T.-J., Reeve, D.E (2010) Diagnostic investigation of impulsive pressures induced by plunging breakers. Coastal Engineering.
- Pedrozo-Acuña, A., Torres-Freyermuth, A., Zou, Q., Hsu, T.-J., Reeve, D.E., (*en arbitraje*) Diagnostic modelling of impulsive pressures induced by plunging breakers. Coastal Engineering
- Peregrine, D. H. and S. M. Williams (2001). Swash overtopping a truncated plane beach. J. fluid Mech., 440, 391-399.
- Puleo, J. A., Beach, R. A., Holman, R. A. and Allen, J. S. (2000) Swash zone sediment suspension and transport and the importance of bore-generated turbulence. Journal of Geophysical Research, 105(C7): 17021-17044
- Puleo, J. A., Farhadzadeh, A., Kobayashi, N. (2007) Numerical simulation of swash zone fluid accelerations. Journal of Geophysical Research 112, C07007. Doi:10.1029/2006JC004084
- Rodi, W. (1980) Turbulence Models and Their Application in Hydraulics-A-State-of-the-Art Review.int Assoc. for Hydraul. Res, Delft, Netherlands.
- Roelvink, J. A. and Stive, M. J. F. (1989). Bar-generating cross-shore flow mechanisms on a beach. J. Geophys. Res., 94(C4): 4785-4800.
- Ryu Y., K.-A. Chang and H.-J. Lim (2005) Use of bubble image velocimetry for measurement of plunging wave impinging on structura and associated greenwater. Meas. Sci. Technol. 16, pp 1945-1953.
- Seymour, R.J. (Editor), (1989) Nearshore Sediment Transport. Plenum Press, New York. She, K., Greated, C.A. and Easson, W.J., (1993) Experimental study of 3-D breaking waves. J. Fluid Mech., submitted.
- Smith, J. M., Larson, M. and Kraus, N. C. (1994). Longshore current on a barred beach: Field measurements and calculation. J. Geophys. Res., 98(C12): 22717-22731.
- Stockes, G. G. (1880). On the theory of oscillatory waves, mathematical and physical papers 1, 225-228. Cambridge Univ. Press.
- Sunamura, T., (1983) Processes of seacliff and platform erosion, in Komar, P. D., ed, CRC handbook of coastal processes and erosion : Boca Raton, Fla., CRC Press, p. 233-265.

- Svendsen, I. A. and J. B. Hansen (1976). Deformation up to breaking of periodic waves on a beach . ASCE. Proc. 15<sup>th</sup> Int. Conf. Coast. Engrg., Chap 27, 477-496
- Svendsen, I. A. (1984). Wave height and set-up in the surf zone. Coast. Eng. 8, 4, 303-329.
- Svendsen, I. A. (1984a) Wave heights and set-up in a surf zone. Coastal Eng. , 8: 303-329
- Svendsen, I. A. (1984b) Mass flux and undertow in a surf zone. Coastal Eng. , 8: 347-364
- Svendsen, I. A. and J. B. Hansen (1986) The interactionof waves and currents over a longshore bar. ASCE Proc. 20<sup>th</sup> Int. Conf. Coast. Engrg., Ch. 116, 1580-1594.
- Svendsen, I. A. and Putrevu, U. (1994) Nearshore mixing and dispersion. Proceedings of the Royal Society of London, 445: 561-576.
- Svendsen, I. A., (1987). Analysis of surf zone turbulence. J. Geophys. Res. 92, C5, 5115-5124.
- Svendsen, I.A., (2005) Introduction to nearshore hydrodynamics, Adv. Ser. Ocean Eng. 24 World Scientific.
- Svendsen, I. A., Veeramony, J., Bakunini, J. and Kirby, J. T. (2000) The flow in weak turbulent hydraulic jumps. J. Fluid Mech. 418, 25-57.
- Svendsen, I. A. and Veeramony J. (2001). Wave breaking in wave groups. J. of Wtrwy., Port, Coast., and Oc. Engrg., ASCE, 127 (4), 200-212.
- Svendsen I. A., (2005) Introduction to nearshore hydrodynamics, Advanced Series on Ocean Engineering, Vol. 24. ISBN 981-256-142-0, World Scientific. Singapore, 745pp.
- Thornton, E.B. and Guza, R.T., (1983): "Transformation of Wave Height Distribution, Journ. of Geophys. Research, Vol. 88, No. C 10, pp. 5925-5938
- Tilen Kusterle, (2007). Surf zone Hydrodynamics. University of Ljubljana. Faculty of mathematics and physics. Department of physics.
- Ting, F.C.K. and Kirby, J.T., (1994) Observation of undertow and turbulence in a laboratory surf zone. Coastal Eng., 24(1-2): 51-80.
- Ting, F.C.K. and Kirby, J.T., (1995) Dynamics of surf-zone turbulence in a strong plunging breaker. Coastal Eng., 24: 177-204.
- Ting, F.C.K. and Kirby, J.T., (1996) Dynamics of surf-zone turbulence in a spilling breaker. Coastal Eng., 27: 131-160.
- Torres-Freyermuth,A., Losada, I.J., Lara, J.L., (2007) Modelling of surf zone processes on a natural beach using Reynolds-Averaged Navier-Stokes equations. J. Geophysical. Res. 112 (L05601)
- Turner, I. L. (1995) Simulating the influence of groundwater seepage sediment on sediment transported by the sweep of the swash zone across macro-tidal beaches. Marine Geology, 125 (1-2): 153-174.
- Van Dorn, W. G. (1978). Breaking invariants in shoaling waves. J. Geophysical. Res., 83, 2981-2988.
- Vincent, C.L. and Briggs, M.J. (1989). Refraction-diffraction of irregular waves over a mound. J. Waterw. Port Coastal Ocean Eng., 115 (2): 269-284.
- Weishar, L. L., Byrne. R. J. (1978). Field study of breaking wave characteristics. Proc. Conf. Coastal Eng., 16 th, pp. 487-506.
- Wright, L.D. y Tom, B. G. (1977) Coastal depositional landforms: A morphodynamical approach. Progress in Physical Geography, 1, 412-459.
- Yamada, H. and T. Shiotani (1968). On the highest ater waves of permanent type. Bull Dissas. Pev. Inst., 18, 135, 1-22