



visitors address:
Voorsterweg 28
8316 PT Marknesse
The Netherlands

postal address:
P.O. Box 423
8440 AK Heerenveen
The Netherlands

tel.
e-mail
internet

+ 31 6 515 749 53
jm@vandermeerconsulting.nl
www.vandermeerconsulting.nl

CoC 39097623
Bank account Rabobank 12.44.44.563
VAT number NL8175.71.978.B.01

CURRICULUM VITAE

Name: Dr J.W. van der Meer
First name: Jentsje
Year of birth: 1955
Nationality: Dutch

Education: 1988 PhD, Delft University of Technology
1981 MSc, Civil Engineering, Delft University of Technology
1976 BSc, Architecture, Technical College, Leeuwarden.

Languages: Frisian, Dutch, English;
working knowledge of French, German

Professional affiliation: ACOPNE, Diplome in Coastal Engineering
KIVI, Royal Institution of Engineers, The Netherlands
ASCE, American Society of Civil Engineers
PIANC

Private address: Praam 27, 8447 CG Heerenveen, The Netherlands, tel. +31 513 623295

Present position: Principal, Van der Meer Consulting b.v.
jm@vandermeerconsulting.nl
www.vandermeerconsulting.com

Employment record: 1997-2007 Infram, Head Department of Engineering
1987-present UNESCO-IHE, Guest lecturer on Breakwater Design
1992-1997 Delft Hydraulics, Deputy Director of Harbours, Coasts
and Offshore Technology Division
1989-1992 Delft Hydraulics, Head of Coastal Structures Department
1987-1988 Part time lecturer at Delft University
1981-1989 Delft Hydraulics, Project Engineer and Project Manager

Key qualifications

Dr Van der Meer is a world famous expert in appraisal, design and testing of breakwaters and coastal structures, including seawalls and dikes. His work on rubble mound structures has been included in all manuals all over the world. He has worked 16 years at Delft Hydraulics (now Deltares), a well-known institute on specialised consulting and research of water related issues. At the position of Deputy Division Director he was involved in the management of the wider field of hydraulic and coastal engineering, coastal zone management, risk assessment and was responsible for the research and marketing of the Division (80 people, 50 academics). For ten years he had a position at Infram International, a private consultant for infrastructure appraisal and management, and he exploited his experience in specialized consultancy and research. Flood risk assessment studies became a relevant part of his work, both national and international. In 2007 he started his own firm Van der Meer Consulting b.v. on Coastal Engineering Consultancy & Research.

In addition to the applied research in the first part of his career he has been project manager or advisor in many projects on design of all kinds of coastal structures all around the world, such as levees, dikes, seawalls, breakwaters, groins, revetments and shingle beaches. Many of them have since then been constructed. The applied research was performed for the Dutch government (various departments) and for the European Union. Later and also recent work was related to wave-structure interaction, such as wave run-up and wave overtopping at dikes, including the strength of these structures under wave attack. He developed a Dutch guideline on wave run-up and overtopping at dikes. The EU-project CLASH was initiated by him and included research institutes like HR Wallingford and Delft Hydraulics. He is co-author of the EurOtop Overtopping Manual, which brings together the knowledge of UK (HR Wallingford), the Netherlands (Infram/Van der Meer Consulting), Germany and Belgium.

Dr Van der Meer is and has been chairman or member of a large number of national and international committees with respect to safety assessment and design of coastal structures. He has published more than 130 papers in international journals, proceedings and books. He has obtained the Halcrow Premium in 1987 and the T.K. Shieh award in 1992, both granted by the British Institution of Civil Engineers. Dr Van der Meer is lecturer to the Delft International Hydraulic Engineering courses of UNESCO-IHE and contributed to many short courses and post doc courses.

Since 1989 Van der Meer has been involved in many EU-research projects on coastal structures, leading to national and international guidance on behaviour of seawalls, dikes and other coastal structures under storm surge and wave attack. All this research and guidance to practical rules made him a top expert on coastal structures in the Netherlands. The most recent EU-project, *Floodsite*, which was coordinated by HR Wallingford, included failure mode analysis of seawalls under wave attack and wave overtopping. Through all this EU-research Dr Van der Meer has an excellent international network in Europe and world wide.

In 2000 Van der Meer was asked by Chevron, Pascagoula, Mississippi, to design a flood protection around the refinery at the US Coast. The levee was constructed and withstood the storm surge and waves of hurricane Katrina in 2005, although the whole city of Pascagoula was flooded! He was involved in the immediate repair of some damages and in the risk strategy for the future.

Dr van der Meer was involved in recent flood risk assessment studies in the Netherlands, including fresh water areas (rivers and large lakes) en salt water. But also in similar studies abroad, amongst others in France, Guyana, Canada, Belgium en India. Specific items are given under Special assignments. These studies in the Netherlands are often performed for Water Boards, the main owners of flood protections.

The latest development, with copy rights to Van der Meer, is the Wave Overtopping Simulator. This is a unique device to test the strength of real dikes for overtopping waves. This Simulator has been designed and constructed and has been used to test the strength of various existing levees in the Netherlands in 2007 -2011 for overtopping waves. Other Simulators have been designed for the USA and for Vietnam and a new Wave Run-up Simulator is under development.

Special assignments

Committees

- 2009 Design Board for Maasvlakte 2 (extension Port of Rotterdam).
- 2007-2009. Advisory Committee on Scale Model Research for Maasvlakte 2 (extension Port of Rotterdam).
- 2005-pres. Member Expertise Network on Flood Defences - Working group on Technical Subjects – ENW.
- 2005-2008. Member Expertise Network on Flood Defences - Working group on Wave boundary conditions – ENW.
- 2003-pres. Member PIANC Working Group MarCom 47. Criteria for the selection of breakwater types and their optimum damage risk level.
- 2007 Member Quality Assurance Team Guideline for River Dike Design – ENW.
- 2000-2005. Member Technical Advisory Committee on Water Defences – Working group on Technical Subjects – TAW.
- 1999-2005 Member Technical Advisory Committee on Water Defences – Project group on Wave boundary conditions – TAW-Rand (Rivers, lakes, estuaries and sea).
- 2005 PhD-committee H. Verhaeghe, University of Gent, Belgium
- 2004 PhD-committee N. Napp, University of Edinburgh
- 2003 PhD-committee B. van der Walle, University of Gent, Belgium
- 1991-2000 Member Technical Advisory Committee on Water Defences - Working group on Hydraulic Loads and Revetments – TAW-A.
- 2000 PhD-committee P. Troch, University of Gent, Belgium
- 1991-1999 Member Technical Advisory Committee on Water Defences - Project group Guideline for sea and lake dikes - TAW-D2.
- 1993-1999 Member PIANC PTC II, working group 28. Breakwaters with vertical and inclined concrete walls.
- 1998 PhD-committee A. Arsié, University of Caen, France
- 1987-1997 Chairman Technical Advisory Committee on Water Defences - Project group on Hydraulic Loads - TAW-A1.
- 1995 PhD-committee M.R.A. van Gent, Delft University of Technology
- 1986-1993 Member Technical Advisory Committee on Water Defences - Probabilistic design - TAW-E.
- 1988-1990 Member CUR 67 - CIRIA 402. Manual on the use of rock in coastal and shoreline engineering.
- 1988-1990 Member CUR 70 committee - Structural strength of concrete armour units.
- 1987-1988 Chairman PIANC PTC II, working group 12, sub-working group C, Risk analysis.
- 1984-1985 Member Project group "Computer Applications in the Design of Breakwaters".

Reviewer of research proposals for EPSRC, UK
Reviewer of research proposals for the EU
Reviewer of research proposals for MIUR, Italy

Abroad

- 2010-pres. Peer review of the design and later consultant to the client on model testing of the Oakajee Breakwater, Australia.
- 2009-2010. Design of Wave Overtopping Simulator for the USA, three times larger than the Dutch one.
- 2008-pres. Consultant to the Client for the Açú breakwater design and Terminal Sul Estaleiro, Brazil.
- 2009-2010. Consultant for Antwerp City Council on mobile flood protection along the Scheldt river, Belgium.
- 2009 Peer Review of design of the marine works for the Qatar Bahrein Causeway, Qatar.

2008-2010. Assistance in design and construction of a Wave Overtopping Simulator for Vietnam.

2008-2010. Flowdike, Hydralab III and KFKI. EU and KFKI-research (Germany) on combined effect of waves and currents on wave overtopping on river and sea dikes.

2008 Independent expert assessment on design conditions of breakwaters, Khalifa, Abu Dhabi.

2007-2008 Independent expert on breakwater damage assessment, Caucedo, Dominican Republic.

2007 Offshore breakwater design for Callao Bay, Peru.

2006-2007. Alternative design with geocontainers of offshore breakwater at Açú Port, Brazil.

2006-2007 Coastal protection and restoration plan for New Orleans and Louisiana Coast.

2005-pres. Damage assessment and risk analysis of the hurricane protection around the Chevron refinery at Pascagoula, Mississippi, US, after having survived hurricane Katrina.

2005-2007 Writing the EurOtop Overtopping Manual in a cooperation with UK, Germany and Belgium (www.overtopping-manual.com).

2005-2007 ComCoast. European project between governments. Development of innovative wave overtopping resistant dikes and the wave overtopping simulator. Actual tests on a real dike at Groningen (www.comcoast.org).

2004-2007 EU-research programme FLOODsite. The only 6th framework programme on flood risk management.

2003-2007 Consultant for Dragados during construction of the breakwater at Hayovel, Israel.

2003-2007 Reviewer for update of the Rock Manual, Manual on the use of rock in hydraulic engineering.

2002-2005 Independent advisor for breakwater design of harbour of Oostende, Belgium.

2002-2004 Flood risk assessment study for the Haute Gironde, France.

2002-2004. EU-research programme CLASH. Crest level assessment of coastal structures by full-scale monitoring, neural network prediction and hazard analysis on permissible wave overtopping. Main task: development of a homogeneous database on wave overtopping.

2001-2004 EU-research programme DELOS: Environmental design of low crested structures. Main task: 3D-tests on wave transmission.

2001-2003 Co-author of ICOLD-bulletin 130 on Risk Assessment. Risk assessment in dam safety management.

2003 Elaboration study for the EU to invest on shore protection in British Guyana, including site visit.

2003 Consultant for COMRISK with respect to safety assessment of the Belgian coast.

2002 Advisory Board for W.A.C. Bennet Dam deficiency investigations. Including site visit. British Columbia, Canada.

1998-2001 Invited expert at EU research project OPTICREST

2001 Peer review for the Wellington International Airport Runway End Enhancement Wave Study, New Zealand

2000 Design of flood protection dike around Chevron refinery, including site visit, Pascagoula, Mississippi, USA

2000 Review wave climate study and shore protection design, Marsden Point Development, New Zealand

2000 Expert Evaluation Panel for EU. Sustainable Marine Ecosystems under the programme Energy, Environment and Sustainable Development

2000 Expert Evaluation Panel for EU. Freight handling and ship operation under the programme of Competition and Sustainable Growth

1999-2000 Porbandar breakwater damage analysis and advice, including site visit, India.

1998-1999 Evaluation of riprap dam Casa de Piedra, including site visit, Argentina.

1999 Expert opinion breakwater design Port Said, Egypt

1999 Conceptual design seawall Disney Parc, Hong Kong

1999 Breakwater expert for design breakwater Barcelona, Spain.

1998 Evaluation of coastal structure designs, Jumeirah Coastal Zone, Dubai

1997 Evaluation of sliding of coastal protection, including site visit, British Guyana.

1995-1996 Breakwater expert in local design team for Ennore Port, India.

1981-1998 Various designs of rubble-mound breakwaters all around the world supported by physi-

- cal model and desk studies concerning stability and functional requirements.
- 1985-1991 Model studies on scale effects and design aspects of berm breakwaters at St George, Alaska; Karwar, India and Funchal, Madeira.
- 1982-1994 Various physical model studies on wave forces and impacts against caissons all around the world.
- 1989-1994 Manager of EC research program MARine Science and Technology (MAST) on Coastal Structures.
- 1988-1991 Coordinator and guest editor of special issue of "Breakwaters", Journal of Coastal Engineering, Elsevier, Amsterdam.

Home-country

- 2010-pres. Co-author of the ENW Technical Report "Strength of grass covered dikes by wave attack and wave overtopping" (in Dutch).
- 2006-pres. Design and construction of the Wave Overtopping Simulator and destructive testing of inner slopes of real dikes/levees at Delfzijl (2007), Boonweg, St Philipsland and Katendijke (all 2007), Afsluitdijk (2009) and Vechtdijk, Zwolle (2010), Tholen (2011) all in the Netherlands. SBW-project (Strength and Loads on Water Defences) of Deltares.
- 2008-pres. Peer reviewer of the SBW project "Residual strength of dikes" of Deltares.
- 2008-2010 Feasibility study on indestructible dikes.
- 2007-2009 Analysis of waves, wave run-up and overtopping measured in a field campaign during storms at the Pettemer Seadike.
- 2007 Expert advice for ENW on emergency measures for the Pettemer sea dike.
- 2007 Design conditions for dike improvements at Ameland and Terschelling.
- 2007 Development of fragility curves for safety assessment of dikes.
- 2006-2007 Development of a research programme for testing dikes by remote sensing and internal techniques for damage assessment and monitoring.
- 2006-2007 Development of the Rich Diike. Ecological optimisation integrated in civil engineering design.
- 2004-2005 Member review team for the breakwater of IJmuiden, NL.
- 2004-2005 Development safety assessment rules for pitched natural rock (Noorse steen).
- 2004-2005 Development method of "proven strength" on pitched natural rock slopes.
- 2002-2005 Member Quality team for VNK-study on safety of Dutch polders against flooding by means of full probabilistic calculations.
- 2000-2005 Wave boundary conditions, required heights of seawalls, environmental impact assessment, supervision of design and planning of reinforcement of seawalls in city of Harlingen
- 2001-2003 Member Review team, planned extension of 1000 hectares for Port of Rotterdam.
- 2000-2002 TAW Guideline on vertical structures: chapter on Required Height
- 1996-2002 Main author of Dutch Guideline on wave run-up and overtopping at dikes, including:
 - o Definition report for PC-OVERSLAG
 - o Review and testing of program PC-OVERSLAG
 - o Report on influence factors of roughness on run-up
- 1999-2002 Safety assessment of dikes around Marker lake with respect to geotechnical stability and proven strength from history.
- 1999-2000 Development of model for failure mechanism (erosion) of a dike until breaching.
- 1997-2000 Bi-modal wave spectra:
 - o Report on effects on required of dikes
 - o Analysis of extensive research data of HR Wallingford on wave overtopping
- 1997-2000 Probabilistic program HYDRA-M:
 - o Description of low-crested dams and foreshores
 - o Verification of wave boundary conditions along the Markermeer
- 1999 Evaluation of safety in design procedures for placed block revetments
- 1999 Design report for single-layer armour units.
- 1998-1999 Expert on conceptual design of breakwaters for Main Port Rotterdam, extension of Maasvlakte II

- 1996-1998 Project Manager of extensive study on safety aspects and risk analysis of two great lakes in The Netherlands, the IJsselmeer and Markermeer
- 1985-1998 Applied and fundamental research on wave run-up, run-down, reflection and transmission concerning rock structures and dikes, using physical model tests and mathematical models.
- 1983-1992 Applied and fundamental research on rubble mound breakwaters:
- interlocking and friction of armour units
 - new design formula for breakwater armour units: Cubes, Tetrapods and Accropode
 - scaling strength of concrete armour units
 - hydraulic behaviour of armour units
 - impact velocities of rocking armour units.
- 1983-1988 Fundamental research on the stability of coarse material under wave action. A five year programme, including more than 400 small scale tests and 20 large scale tests (Delta flume). Topics:
- stability formula for statically stable slopes (breakwaters)
 - description profile of dynamically stable slopes (rock and gravel beaches)
 - evaluation of scale effects.
- 1987 Development and installation of wave basin with short-crested waves.
- 1990 Development of computer program BREAKWAT (design of breakwaters)
- 1991 Model investigation on the influence of oblique and short-crested waves on wave run-up and overtopping.
- 1987-2007 Guidance of MSc-students at Delft University of Technology on various subjects.

List of publications divided into subjects

1. Risk assessment
2. Design conditions
3. Stability of coastal structures
 - a. Dikes, levees and embankments and the Wave Overtopping Simulator
 - b. Rock slopes
 - c. Breakwater armour
 - d. Berm breakwaters
 - e. Low-crested structures
 - f. Vertical structures
 - g. Toe structures
4. Functional design of coastal structures
 - a. Wave overtopping
 - b. Wave transmission
 - c. Wave reflection
5. Other subjects

1. Risk assessment

- 2008 Van der Meer, J.W. Coastal flooding: a view from a practical Dutchman on present and future strategies. Keynote paper at FloodRisk, Oxford, UK. Flood Risk Management: Research and Practice – Samuels et al. (eds.) ISBN 978-0-415-48507-4; pp 3-10.
- 2008 Van der Meer, C. Cooper, M.J. Warner, H. Adams-Morales and G.J. Steendam. The success of the hurricane protection around Chevron's refinery at Pascagoula, MS, during Katrina. Abstract accepted for PIANC Conference, Mobile, AL, USA.
- 2008 Van der Meer, J.W., W.L.A. ter Horst and E.H. van Velzen. Calculation of fragility curves for flood defence assets. Proc. FloodRisk, Oxford, UK. Flood Risk Management: Research and Practice – Samuels et al. (eds.) ISBN 978-0-415-48507-4; pp 567-573
- 2008 Allsop, N.W.H., T. Bruce, T. Pullen and J.W. van der Meer. Direct hazards from wave overtopping – the forgotten aspect of coastal flood risk assessment? DEFRA, Proc. Flood and Coastal Management Conference, Manchester, UK.
- 2005 Van der Meer, J.W., S. Nurmohamed, L.A. Philipse, G.J. Steendam and J. Wouters. Stability Assessment of single layers of orderly placed and of pitched natural rock. Proc. Second International Coastal Symposium, Höfn, Iceland.
- 2005 Van der Meer, J.W., A. Benaïssa and P. Weidema. Risk-based management of flooding in the Haute Gironde. Proc. Third International Symposium on Flood Defence, Nijmegen, NL.
- 2003 Takahashi, S., M. Hanzawa, S. Sugiura, K. Shimosaka and J.W. van der Meer. Performance design of maritime structures and its application to armor stones and blocks of breakwaters. ASCE, Proc. Coastal Structures 2003, Portland, Oregon, pp. 14 - 26.
- 1998 De Looff, H. and Van der Meer, J.W. Assessment of safety against flooding in the Netherlands. Proc. MAFF conference, Keele, UK.
- 1998 Van der Meer, J.W., Tönjes, P. and de Waal, J.P. A code for dike height design and examination. Coastlines, Structures and Breakwaters. ICE, pp. 5-19. Ed. N.W.H. Allsop, Thomas Telford, London, UK.
- 1998 Van der Meer, J.W., de Looff, A.P. and Glas, P. Integrated approach on the safety of dikes along the great Dutch lakes. ASCE, proc. 26th ICCE, pp. 3439-3452. Copenhagen, Denmark.
- 1988 Van der Meer, J.W. Book review of: Design and Construction of Mounds for Breakwaters and Coastal Protection (Per Bruun, ed.). Journal of Coastal Engineering, Elsevier, 12, pp. 107-108.

2. Design conditions

- 2002 Van der Meer, J.W., J.W. Langenberg, M.Klein Breteler, D.P. Hurdle and F. den Heijer. Wave boundary conditions and overtopping in complex areas. ASCE, Proc. 28th ICCE, Cardiff, UK, pp. 2092-2104.
- 1999 Klopman, G. and Van der Meer, J.W. Random wave measurements in front of reflective structures. Journal of WPC and OE, ASCE, Volume 1, No. 1, pp. 39-45. New York.
- 1999 Otta, A.K. and Van der Meer, J.W. Wave height distribution over a shallow fore-land from Boussinesq modelling. Proc. Coastal Structures '99, Santander, Spain. Losada (ed.), Balkema, Rotterdam, pp. 47-55.

3. Stability of coastal structures

a. Dikes, levees and embankments and the Wave Overtopping Simulator

- 2011 Van der Meer, J.W., C. Thornton and S. Hughes. Design and operation of the US Wave Overtopping Simulator. ASCE, Proc. Coastal Structures 2011, Yokohama, Japan.
- 2011 Thornton, C., J.W. van der Meer and S.A. Hughes. Testing levee slope resiliency at the new Colorado State University Wave Overtopping Test Facility. ASCE, Proc. Coastal Structures 2011, Yokohama, Japan.
- 2011 Le H.T., H. J. Verhagen and J.W. van der Meer. Wave overtopping resistance of grassed slopes in Viet Nam. ASCE, Proc. Coastal Structures 2011, Yokohama, Japan.
- 2011 Steendam, G.J., P. Peeters., J.W. van der Meer, K. Van Doorslaer, and K. Trouw. Destructive wave overtopping tests on Flemish dikes. ASCE, Proc. Coastal Structures 2011, Yokohama, Japan.
- 2011 Le, H.T., H.J. Verhagen and J.W. van der Meer. Wave overtopping resistance of grassed slopes in Viet Nam. Proc. 5th International Short Conference on Applied Coastal Research, Aachen, Germany.
- 2011 Gier, F., J. Mönnich, H. Schüttrumpf and J. W. van der Meer. Experimentelle Untersuchungen zur Stabilität von verzahnten Setz-steindeckwerken. Proc. 41. IWASA, Internationales Wasserbau-Symposium, Aachen, Germany.
- 2010 Van der Meer, J.W., B. Hardeman, G.J. Steendam, H. Schttrumpf and H. Verheij. Flow depths and velocities at crest and inner slope of a dike, in theory and with the Wave Overtopping Simulator. ASCE, Proc. ICCE 2010, Shanghai.
- 2010 Steendam, G.J., J.W. van der Meer, B. Hardeman and A. van Hoven. Destructive wave overtopping tests on grass covered landward slopes of dikes and transitions to berms. ASCE, Proc. ICCE 2010, Shanghai.
- 2010 Le H.T., J.W. van der Meer, G.J. Schiereck, Vu Minh Cath and G. van der Meer. Wave Overtopping Simulator Tests in Vietnam. ASCE, Proc. ICCE 2010, Shanghai.
- 2010 Van Hoven, A., B. Hardeman, J.W. van der Meer and G.J. Steendam. Sliding stability of landward slope clay cover layers of sea dikes subject to wave overtopping. ASCE, Proc. ICCE 2010, Shanghai.
- 2009 Van der Meer, J.W., R. Schrijver, B. Hardeman, A. van Hoven, H. Verheij and G.J. Steendam. Guidance on erosion resistance of inner slopes of dikes from three years of testing with the Wave Overtopping Simulator. Proc. ICE, Coasts, Marine Structures and Breakwaters 2009, Edinburgh, UK.
- 2008 Van der Meer, J.W., G.J. Steendam, G. de Raat and P. Bernardini. Further developments on the wave overtopping simulator. ASCE, Proc. ICCE 2008, Hamburg, 2957-2969.
- 2008 Wolters, G., J.W.H. Nieuwenhuis, J.W. van der Meer and M. Klein Breteler. Large scale tests of clay erosion at the Wieringermeer dike (IJsselmeer). ASCE, Proc. ICCE 2008, Hamburg, 3263-3275.
- 2008 Hoffmans, G., G.J. Akkerman, H. Verheij, A. van Hoven and J.W. van der Meer. The erodibility of grassed inner dike slopes against wave overtopping. ASCE, Proc. ICCE 2008, Hamburg, 3224-3236.

- 2008 Steendam, G.J., W. de Vries, J.W. van der Meer, A. van Hoven, G. de Raat and J.Y. Frissel. Influence of management and maintenance on erosive impact of wave overtopping on grass covered slopes of dikes; Tests. Proc. FloodRisk, Oxford, UK. Flood Risk Management: Research and Practice – Samuels et al. (eds.) ISBN 978-0-415-48507-4; pp 523-533.
- 2007 Van der Meer, J.W., P. Bernardini, G.J. Steendam, G.J. Akkerman and G.J.C.M. Hoffmans. The wave overtopping simulator in action. Proc. Coastal Structures, Venice, Italy.
- 2007 Akkerman, G.J., P. Bernardini, J.W. van der Meer, H. Verheij and A. van Hoven. Field tests on sea defences subject to wave overtopping. Proc. Coastal Structures, Venice, Italy.
- 2006 Van der Meer, J.W., P. Bernardini, W. Snijders and H.J. Regeling. The wave overtopping simulator. ASCE, ICCE 2006, San Diego, pp. 4654 - 4666.

b. Rock slopes

- 2006 Nurmohamed, S., G.J. Steendam and J.W. van der Meer. Weight and stability assessment of single layers of orderly placed or pitched natural rock. ASCE, ICCE 2006, San Diego pp. 4815 - 4827.
- 1998 Van der Meer, J.W. Geometrical design of coastal structures. Chapter 9 in: "Seawalls, dikes and revetments". Edited by K.W. Pilarczyk. Balkema, Rotterdam.
- 1998 Van der Meer, J.W. Applications and stability criteria for rock and artificial units. Chapter 11 in: "Seawalls, dikes and revetments" Edited by K.W. Pilarczyk. Balkema, Rotterdam.
- 1997 Van der Meer, J.W. Discussion on: Comparison and evaluation of different riprap stability formulas using field performance, by Belfadhel et al. ASCE, Journal of WPC&OE, pp. 147-148.
- 1995 Van der Meer, J.W. Conceptual design of rubble mound breakwaters. World Scientific. In: Advances in Coastal and Ocean Engineering, Volume 1. Ed. P.L.F. Liu, pp. 221-315.
- 1995 Van der Meer, J.W. A review of stability formulas for rock and riprap slopes under wave attack. In: River, coastal and shoreline protections; Erosion control using riprap and armourstone. John Wiley & Sons, England. Edited by C.R. Thorne et al. Proc. Riprap workshop, Fort Collins, Colorado, USA, pp. 191-212.
- 1993 Van der Meer, J.W. Conceptual design of rubble mound breakwaters. Delft Hydraulics Publication number 483.
- 1992 Van der Meer, J.W. Conceptual design of rubble mound breakwaters. ASCE, Short course at 23rd ICCE, Venice, Italy.
- 1990 Van der Meer, J.W. Deterministic and probabilistic design of breakwater armour layers. Discussion. Proc. ASCE, Journal of WPC and OE, Vol. 116, No. 4, pp. 502-516.
- 1990 Van der Meer, J.W. and Vis, F.C. Design tools for rubble structures, Proc. Port. Engg. Seminar with Emphasis on Computer and Port Engg., Kuala Lumpur, Malaysia.
- 1990 Van der Meer, J.W. Rubble mounds recent modifications. In: Handbook of Coastal and Ocean Engineering. Herbich (ed.), Texas A&M University, Ch. 28.
- 1990 Van der Meer, J.W. Probabilistic design of breakwaters. In: Handbook of Coastal and Ocean Engineering. Herbich (ed.), Texas A&M University, Ch. 22.
- 1990 Van der Meer, J.W. Deterministic and probabilistic design of breakwater armour layers. Journal of the Korean Society of Agricultural Engineers, Vol. 32, No. 1, pp.7-16 (In Korean).
- 1989 Van der Meer, J.W. Stability of breakwater armour layers-design formulae, Discussion. Journal of Coastal Engineering, Elsevier, 13, pp. 81-90.
- 1989 Van der Meer, J.W. Stability of breakwaters – Delft Hydraulics' developments. Third National Conference Dock & Harbour Engg., Surathkal, India.
- 1988 Van der Meer, J.W. Deterministic and probabilistic design of breakwater armour layers. Proc. ASCE, Journal of WPC and OE, Vol. 114, No. 1.
- 1988 Van der Meer, J.W. Rock slopes and gravel beaches under wave attack. Doctoral thesis, Delft University of Technology. Also Delft Hydraulics Publication no. 396.
- 1988 Van der Meer, J.W. and Pilarczyk, K.W. Large scale verification tests on rock slope stability. ASCE, Proc. 21st ICCE, Malaga.

- 1987 Van der Meer, J.W. Stability of breakwater armour layers - Design formulae. *Journal of Coastal Engineering*, 11, pp. 219-239.
- 1987 Van der Meer, J.W. and Pilarczyk, K.W. Stability of breakwater armour layers - Deterministic and probabilistic design. *Delft Hydraulics Communication No. 378*.
- 1987 Van der Meer, J.W. and Pilarczyk, K.W. Discussion on: Armor layer stability of rubble-mound breakwaters by Per Anders Hedar. *ASCE, Journal of WPC&OE*, pp.388-391.
- 1986 Van der Meer, J.W. Deterministic and probabilistic design of breakwater armour layers. *The Dock & Harbour Authority*, December, pp. 177-180.
- 1985 Van der Meer, J.W. Stability of revetments and breakwaters under random wave attack. *Breakwaters; Design and Construction*, Thomas Telford, Proc. Breakwaters '85 Conference, London.
- 1984 Van der Meer, J.W. and Pilarczyk, K.W. Stability of rubble mound slopes under random wave attack. *ASCE, Proc. 19th ICCE*, Houston. Also *Delft Hydraulics Publication No. 332*.

c. Breakwater armour

- 2000 Burcharth, H.F., d'Angremond, K., Van der Meer, J.W. and Liu, Z. Empirical formula for breakage of Dolosse and Tetrapods. *Journal of Coastal Engineering* 40 (2000) 183-206.
- 1999 Van der Meer, J.W. Design of concrete armour layers. *Proc. Coastal Structures '99*, Santander, Spain. Losada (ed.), Balkema, Rotterdam, pp. 213-221.
- 1999 Van Gent, M.R.A., Spaan, G.B.H., Plate, S.E., Van der Meer, J.W., and d'Angremond, K. Single-layer rubble mound breakwaters. *Proc. Coastal Structures '99*, Santander, Spain. Losada (ed.), Balkema, Rotterdam, pp. 231-239.
- 1999 d'Angremond, K., Berendsen, E., Bhageloe, G.S., Van Gent, M.R.A. and Van der Meer, J.W. Breakwaters with a single armour layer. *Proc. COPEDEC*, South Africa.
- 1994 d'Angremond, K., Van der Meer, J.W. and Van Nes, C.P. Stresses in tetrapod armour units induced by wave actions. *ASCE, proc. 24th ICCE*, Kobe, Japan, pp. 1713-1726.
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