

Professional Biography

of

Preben Terndrup Pedersen

. Professor emeritus of Maritime Engineering, Dr. h.c
Mechanical Engineering
Build. 403, Technical University of Denmark
DK-2800 Kgs. Lyngby, Denmark

Personal

Citizenship: Denmark
Birthplace: Skive, Denmark, October 15th 1940

Education

M.Sc. Mechanical Engineering, Technical University of Denmark, 1966
Ph.D. Mechanical Engineering, Technical University of Denmark, 1969

Positions Held

2001- 2007 Head of Department of Mechanical Engineering at Technical University of Denmark

1992 – 2001 Leader of Mechanical Engineering, Energy and Production Sector of Technical University of Denmark.

1973 - 2010 Professor of Strength of Marine Structures at Department of Naval Architecture and Offshore Engineering, Technical University of Denmark.

1973 Visiting researcher at Det norske Veritas, Oslo, Norway.

1971-1972 Research Fellow at Department of Engineering and Applied Physics at Harvard University, Massachusetts, USA.

1969-1971 Associate Professor in Theory of Vibrations at the Technical University of Denmark.

1967-1969 Assistant Professor at the Department of Solid Mechanics at the Technical University of Denmark.

1966-1967 Engineer at the Danish Defence Research Establishment

International & National Committees, Services, Etc.

	Beginning	Ending
1. Scientific Council for The Danish Centre for Applied Mathematics and Mechanics, Member	1969	2001
2. International Ship and Offshore Structures Congress, Member and Chairman of Committee II.2	1973	1985
3. Danish Patent Appeal Board, Member	1976	2010
4. Member of Det Norske Veritas Nordic Committee for safety at Sea	1975	2013
5. Member of the Board of Directors of the H.P. Christensen Foundation	1979	2014
6. Knight of the order of Dannebrog	1981	Present
7. Fellow of the Royal Institution of Naval Architects	1982	Present
8. Member of Danish Technical Research Council's Commission for Mechanical Engineering	1984	1991
9. Danish representative in the General Assembly of the International Union of Theoretical and Applied Mechanics (IUTAM)	1984	1998
10. Member of the Board of Directors of the Danish Maritime Institute	1984	1991
11. Organiser of session on "Marine Structure Wave Interaction" at XVIth International Congress of Theoretical and Applied Mechanics	1984	1984
12. Chairman for the International Ship and Offshore Structures Congress (ISSC)	1985	1988
13. Member of the Danish Academy of Technical Sciences (ATV)	1985	Present
14. Organised the 10th ISSC Congress in Denmark	1988	1988
15. Editorial Board for International Journal of Marine Structures Elsevier Science Publishers	1988	Present
16. Adviser for Great Belt Link Ltd. on navigational conditions and ship collisions	1988	1999
17. Member of the Board of Directors of the COWI Foundation (Chairman 1998 – 2001)	1989	2001
18. Leader of the research programme "Marine Structural Design" (Frame Program supported by Danish Technical Research Council)	1989	1997

19. Secretary of the Int. Standing Committee for Practical Design of Ships and Mobile Units (PRADS)	1989	1995
20. Knight of the 1. degree of the order of Dannebrog	1989	Present
21. Chairman of the Danish National Committee of International Union of Theoretical and Applied Mechanic (IUTAM)	1989	1998
22. Member of the Danish National Committee of Int. Council of Scientific Unions (ICSU)	1989	1998
23. Member of the Danish Academy of Technical Sciences' Committee of Institutes	1989	1997
24. Chairman of Danish Technical Committee of Nippon Kaiji Kyokai (NKK)	1991	2009
25. Chairman of Faculty of Mechanical Engineering at the Technical University of Denmark	1991	2001
26. Associate Editor for Ocean Engineering, Pergamon Press	1992	2016
27. Adviser for Øresundskonsortiet on navigational conditions and ship collisions	1993	2000
28. Member of the Danish Defence Research Committee	1993	2006
29. Editorial Board for Journal of Society of Naval Architects, Japan	1995	Present
30. Organiser of session on “Hydro-elasticity” at XXIth Int. Congress of Theoretical and Applied Mechanics, Kyoto Japan	1995	1996
31. Member of US Office of Naval Research Board for Future Directions	1995	1998
32. Chairman of the Danish Academy of Technical Sciences Committee of Institutes	1996	1997
33. Editorial Board for Journal of Ship and Ocean Technology	1996	Present
34. Member of Myhrwold’s Foundation (Chairman since 2002)	1996	2015
35. Chairman of the Otto Mønsted Foundation	1997	2011
36. Adviser for Danish Ministry of Transport on Fehmarn Belt Feasibility Study	1997	2002
37. Member of the Board of Directors of FORCE Technology	1997	2011
38. Member of Steering Group for Science for Peace Programme of North Atlantic Treaty Organisation (NATO)	1997	2003
39. Member of the Senate of the Technical University of Denmark	1998	2005

40. Chairman of the Board of Directors for COWI foundation	1998	2001
41. Vice-chairman of the Board of Directors for Otto Mønsted A/S	1998	2013
42. Vice- President of the Danish Academy of Technical Sciences	1998	2002
43. Organiser of session on “Fluid – Structure Interaction” at Int. Congress of Theoretical and Applied Mechanics, ICTAM 2000, Chicago, USA	1998	2000
44. Chairman of Steering Committee for 2 nd Int. Conf. On Collision and Grounding of Ships, Copenhagen Denmark	2000	2001
45. Member of the Grundfos Price Committee	2001	Present
46. Member of Board of Directors for IPU	2002	2008
47. Member of External Review Group advising Lloyds Register of Shipping, American Bureau of Shipping and Det Norske Veritas on Common Tanker Scantlings .	2002	2005
48. Editorial Board of Int. Journal of Maritime Engineering, published by Royal Institution of Naval Architects	2002	Present
49. Consultant to A.P. Moller – Maersk A/S	2003	2010
50. Member of Norwegian Academy of Technological Sciences	2003	Present
51. Vice-chairman of the Danish Board of Councils for Independent Research	2004	2007
52. Member of Principal Committee for Evaluation of Norwegian Research in Engineering Science	2004	2004
53. Member of Steering Group on the IALA Port and Waterway Risk Management Tool	2005	2007
54. Member of the Danish Research Communication Price Committee	2005	2009
55. Member of Marine Committee of the Baltic and International Maritime Council (BIMCO)	2006	2009
56. Awarded the Davidson Medal from the Society of Naval Architects and Marine Engineers, USA for outstanding scientific accomplishment in ship research	2006	2006
57. Member of Scientific Committee for Evaluation of Norwegian Centers of Excellence	2006	2006
58. Elected Fellow of Society of Naval Architects and Marine Engineers, USA	2006	Present
59. Foreign Member of The Royal Norwegian Society of Sciences and Letters	2007	Present

60. Chairman of Board of Directors for IPU	2007	2011
61. Member Editorial Board of the Journal of Naval Architecture and Ocean Engineering, Society of Naval Architects of Korea	2009	Present
62. Awarded the Alexander Foss Gold Medal from the Technical University of Denmark for achievements within technical sciences		2009
63. Awarded the “Danske Maritime Pris” for contributions to innovation and growth in the Danish Maritime sector.		2009
64. Appointed Visiting Professor at Zhejiang University		2010
65. Received the Lifetime Achievement Award for Maritime Academics at ShipTek 2010 in Dubai		2010
66. Awarded Doctor Honoris Causa degree from the Norwegian University of Science and Technology for contributions to research within marine structures		2010
67. Confederation of European maritime Technology Societies (CEMT) 2010 Award for significant contributions to European shipbuilding		2010
68. Member of Technical Committee for salvage of wreck of Costa Concordia in Italy	2012	2014
69. Chairman of Scientific Committee for Selection of Norwegian Centers of Excellence	2012	2012
70. Section Editor for Ship Structures Chapter in Encyclopedia of Marine & Offshore Engineering to be published by Wiley	2013	Present
71. Elected Foreign Member of the Chinese Academy of Engineering	2013	Present
72. Member of advisory panel for “Innovation Center for Advanced Ship and Deep-sea Exploitation Equipment for China”	2014	Present
73. Serves as expert within safety philosophy for Fjord Crossing Project in Western Norway	2014	Present
74. Evaluator of Research within Civil Engineering and Marine Structures in universities and research institutions in Norway	2014	2015
75. Appointed Honorary Professor of Ningbo Institute of Technology, Zhejiang University		2015
76. Member of editorial board of Engineering Journal	2015	Present
77. "Thousands of People Plan of China" foreign expert		2016
78. “Strategic Scientist” at Wuhan University of Technology, China	2016	2021

TEACHING

Courses at undergraduate, graduate and post graduate level at the Technical University of Denmark within Strength of Structures, Theory of Vibrations and Naval Architecture.

Supervised the following completed Ph.D. studies:

- 1977 Madsen, N.F.: "Vibrations in Ships" ..
- 1978 Römeling, J.U.: "Buling af afstivede pladepaneller".
- 1978 Sørensen, H.H.: "Sammenkobling af rotations-symmetriske og generelle tre-dimensionale konstruktioner i elementmetode-beregninger".
- 1980 Fabian, O.: "Elastic-Plastic Collapse of Long Tubes under Combined Bending and Pressure Load".
- 1980 Petersen, M.J.: "Ship Collisions".
- 1981 Gong, J.: "A Rational Approach to Automatic Design of Ship Sections".
- 1984 Rishøj Nielsen, N.J.: "Structural Optimization of Ship Structures".
- 1984 Liebst, J.: "Torsion of Container Ships".
- 1985 Nedergaard, H.: "Collapse of Offshore Platforms".
- 1985 Gjersøe-Fogj. "Mathematical Definition of Ship Hull Surfaces using B-Splines
- 1986 Yan, J.: "3-D Analysis of Pipelines during Laying".
- 1987 Holt-Madsen, A.: "A Quadratic Theory for the Fatigue Life Estimation of Offshore Structures".
- 1989 Rasmussen, J.: "Structural Design of Sandwich Structures".
- 1990 Baatrup, J.: "Structural Analysis of Marine Structures".
- 1990 Wedel-Heinen, J.: "Vibration Analysis of Imperfect Elements in Marine Structures".
- 1991 Back-Pedersen, A.: "Analysis of Slender Marine Structures".
- 1992 Bendiksen, E.: "Hull Girders Collapse".
- 1990 Buus Petersen, J.: "Non-Linear Strip Theories for Ship Response in Waves".
- 1993 Kierkegaard, H.: "Ship Collisions with Icebergs".
- 1994 Pedersen, B.: "A Free-Surface Analysis of a Two-Dimensional Moving Surface-Piercing Body".
- 1994 Friis Hansen, P.: "Reliability Analysis of a Midship Section".
- 1995 Melchior Hansen, A.: "Reliability Methods for the Longitudinal Strength of Ships".
- 1995 Branner, K.: "Capacity and Lifetime of Foam Core Sandwich Structures".
- 1995 Schack, C.: "Skrogudvikling af hurtiggående færger med henblik på sødygtighed og lav modstand".
- 1997 Simonsen, Cerup B.: "Mechanics of Ship Grounding".
- 1997 Riber, H.J.: "Response Analysis of Dynamically Loaded Composite Panels".
- 1997 Andersen, M. Rye: "Fatigue Crack Initiation and Growth in Ship Structures".
- 1998 Nielsen, L.P.: "Structural Capacity of the Hull Girders".
- 1999 Zhang, S.: "The Mechanics of Ship Collisions".
- 2002 Lützen, M.: "Ship Collision Damages"
- 2007 Yamada, Y.: Buffer Bulbous Bows: A Measure to Reduce Oil Spill in Collisions.

PUBLICATIONS

I. Books

- "Theory of Vibrations" in Danish, Polyteknisk Forlag, 117 pages, 1969.
- "Worked Examples for Theory of Vibrations" in Danish, Polyteknisk Forlag, 71 pages, 1970.
- "Vibrations" in Danish with V. Tvergaard and F. Niordson, 156 pages, 1980.
- "Strength of Marine Structures - Part I: Loading and Global Analysis" in Danish with J.J. Jensen, Den Private Ingeniørfond, 516 pages, 1983.
- "Strength of Marine Structures - Part II: Numerical Methods" in Danish with J.J. Jensen, Den Private Ingeniørfond, 282 pages, 1983.
- "Strength of Marine Structures - Part III: Stiffened Plate and Shell Structures" in Danish with J.J. Jensen, Den Private Ingeniørfond, 416 pages, 1983.
- "Proceedings of the Tenth International Ship and Offshore Structures Congress - Volume 1: Design Committee Reports" Editor together with J.J. Jensen, 662 pages, 1988.
- "Proceedings of the Tenth International Ship and Offshore Structures Congress - Volume 2: Specialist Committee Reports" Editor together with J.J. Jensen, 327 pages, 1988.
- "Proceedings of the Tenth International Ship and Offshore Structures Congress - Volume 3: Report of the 10th ISSC and edited discussions" Editor together with J.J. Jensen, 363 pages, 1989.
- "Basic Ship and Offshore Engineering" in Danish, 310 pages, 2000
- "Proceedings 2nd International Conference on Collision and Grounding of Ships" Editor together with M. Lützen, B.C. Simonsen, and V. Jensen. 326 pages, 2001.
- "Marine Structures, Design, Construction & Safety" Vol. 15, No. 4 –5, July – October 2002, pp. 311 - 531. Special Issue on Ship Collisions and Grounding, Guest Editor with M. Lützen and B.C. Simonsen.
- "Teknologisk innovation i transportsektoren – en platform for nødvendige beslutninger" Akademiet for de Tekniske Videnskaber, 2005 (Co-authors: J. Rørbech, S. Christensen, N. Bach, J. Christensen, K. Lemberg, O.A. Nielsen, P. Olesen and K. Sillemann)
- "Basic Naval Architecture and Maritime Technology" in Danish, Technical University of Denmark together with P. Andersen and Chr. Aage, 395 pages 2008.
- "Marine structures: consuming and producing energy" pp. 6-17, in "Engineering Challenges - energy, climate change & health" published by the Technical University of Denmark, 2009 (co-author J. Juncher Jensen)
- "Petri Varsta's Professional Activities – Observed by a colleague" In Petri Varsta Akateeminen Laivanrakentaja, Aalto-Yliopisto ISBN 978-952-60-3625-6. Pp. 128-135 2013.
- "Maritime ingeniøruddannelser og Forskning" In Maritime Visioner- 100 år med Søfartsteknisk Forening. ISBN 978-87-998304-0-4. Pp 98-111. 2015. (Co-author I.M.V. Andersen).

II. Papers in Refereed Journals and Other Major Publications

- "Stability of Rotors with Unsymmetrical Flexible Bearings", Sectional lecture, Proceedings of the Twelfth International Congress of Applied Mechanics, Stanford University, Editors Hetényi & Vincenti. Springer Verlag, pp. 331-341, 1969.
- "On Forward and Backward Precession of Rotors", Ingeniur-Archiv 42, pp. 26-71, 1973.
- "On Self-Excited Whirl of Rotors", Ingeniur-Archiv 42, pp. 267-284, 1973.
- "Buckling of Unstiffened and Ring Stiffened Cylindrical Shells under Axial Compression", Int. J. Solids Structures, Vol. 9, pp. 671-691, 1973.
- "Buckling of Ring Stiffened Cylindrical Shells", Proceedings of the Fourth Canadian Congress of Applied Mechanics, pp. 277-278, 1973.

- "Equilibrium of Offshore Cables and Pipelines during Laying", *International Shipbuilding Progress*, 22, No. 256, pp. 399-408, December 1975.
- "On the Collapse Load of Cylindrical Shells", *Proceedings International Union of Theoretical and Applied Mechanics, Symposium on Buckling of Structures*, Harvard University, Massachusetts, USA, Editor B. Budiansky, Springer-Verlag, pp. 27-39, 1976.
- "Buckling of Spherical Cargo Tanks for Liquid Natural Gas", *The Royal Institution of Naval Architects, Transactions*, Vol. 118, pp. 193-205, 1976. (Co-author J. Juncher Jensen).
- "Correlation between Experimental Buckling Loads and Theoretical Predictions for Spherical Cargo Tanks for LNG", *Proceedings Steel Plated Structures*, Imperial College, Editors Dowling, Harding & Frieze, pp. 638-651, Crosby Lockwood Staples, London 1976. (Co-author J. Juncher Jensen).
- "Statics and Dynamics of Anchoring Cables in Waves", *Technical Comment, Journal of Hydronautics*, Vol. 11, No. 3, p. 142, 1977.
- "On Design Criteria for Elastic Buckling of Shells", *Proceedings PRADS-International Symposium on Practical Design in Shipbuilding*, The Society of Naval Architects of Japan, Tokyo, pp. 87-93, October 1977. (Co-author J. Juncher Jensen).
- "The Effect of Non-Linearities on the Probability of Failure of Ship Structures", *Proc. International Research Seminar on Safety of Structures under Dynamic Loading*, pp. 853-860, Trondheim, Norway 1977. (Co-author J. Juncher Jensen).
- "Strength Problems for Independent LNG/LPG Tanks", in Danish, *Proceedings Nordic Naval Architect Meeting*, pp. 1-48, Malmö, Sweden. (Co-author J. Juncher Jensen).
- "On the Calculation of the Joint Probability Density of Slightly Non-Linear Stochastic Processes", *Zeitschrift für Angewandte Mathematik und Mechanik*, Vol. 58, pp. T481-T482, June 1978.
- "Equilibrium of Marine Pipelines during Laying", *Zeitschrift für Angewandte Mathematik und Mechanik*, Vol. 58, pp. T228-T230, June 1978.
- "Wave-Induced Bending Moments in Ships - A Quadratic Theory", *The Royal Institution of Naval Architects, Transactions* Vol. 121, pp. 151-165, 1979. (Co-author J. Juncher Jensen).- RINA Bronze Medal Awarded 1980.
- "A Program System for Strength and Vibration Calculations for Ship Structures", *Proceedings IFIP-IFAC International Conference on Computer Applications in the Automation of Shipyard Operation and Ship Design*, pp. 145-154, Glasgow 1979. (Co-author J. Juncher Jensen).
- "Vertical Response of Flexible Ships in Waves", *Proceedings Numerical Analysis of the Dynamics of Ship Structures, Euromech Colloquium 122*, Paris Sept. 1979. (Co-author J. Juncher Jensen).
- "Bending Moments and Shear Forces on Ships Sailing in Irregular Waves", *Journal of Ship Research*, Vol. 25, No. 4, pp. 243-251, Dec. 1981. (Co-author J. Juncher Jensen).
- "Collisions Between Ships and Offshore Platforms", *Offshore Technology Conference, Houston USA*, Paper No. 4134, pp. 163-170, May 1981. (Co-author M.J. Petersen).
- "A Finite Element Formulation for Beams with Walled Cross-Sections", *Computers and Structures*, Vol. 15, No. 6, pp. 691-699, 1982. (Co-author G. Gunnlaugsson).
- "Impact Mechanics", *Proceedings of Colloquium on Offshore Collisions*, DnV Publication No. 82-0754, Oslo, Norway 1982.
- "A Beam Model for the Torsional-Bending Response of Ship Hulls", *The Royal Institution of Naval Architects, Transactions* Vol. 125, pp. 171-182, 1983.
- "Interaction Formulas for Buckling of Shell Structures Subjected to Combined Loads", *The 2nd International Symposium on Practical Design in Shipbuilding*, The Society of Naval Architects of Japan, and The Society of Naval Architects of Korea, Tokyo and Seoul, pp. 483-492, Oct. 1983. (Co-author J. Juncher Jensen).
- "The Buckling of Submarine Pipelines", Chapter IV in: *Advances in Offshore Oil and Gas Pipeline Technology*, Edited by R.F. de la Mare, 1984. (Co-author J. Juncher Jensen).
- "Recent Advances in Beam Models Used for Ship Hull Vibration Analysis", *Proceedings Int. Symposium on Ship Vibrations*, pp. 1-30, Genova, May 1984. (Co-author J. Juncher Jensen).
- "Structural Design of Marine Structures", Sectional Lecture. *Proceedings of the XVIth International Congress of Theoretical and Applied Mechanics*, Editors Niordson and Olhoff, pp. 293-310, North-Holland, 1985.

- "Analysis Procedure for Space Frames with Material and Geometrical Nonlinearities", Proc. Europe - US Symposium Finite Element Methods for Nonlinear Problems, Editors Bergan, Bathe & Wunderlich, pp. 211 – 230. Springer Verlag 1985. (Co-author H. Nedergaard).
- "Torsional Response of Containerships", Journal of Ship Research, Vol. 29, No. 3, pp. 194-205, Sept. 1985.
- "Non-linear Structural Response", La Marina Italiana Anno LXXXIII, No. 4, pp. 7-8, 1985.
- "3-D Static Analysis of Pipelines During Laying", Proceedings Offshore Technology Conference, Houston, OTC paper No. 5297, Vol. 4, pp. 47-56, 1986. (Co-author J. Yan).
- "Structural Optimization of Ship Structures", Computer Aided Optimal Design. Structural and Mechanical Systems, Editor C.A. Mota Soares, Springer Verlag, Berlin Heidelberg, pp. 921-941, 1987. (Co-author N. Rishøj-Nielsen).
- "Mathematical Models for Space Curved Marine Pipelines and Risers", Proceedings of the Third International Symposium on Practical Design of Ships and Mobile Units, Editor Faltinsen, Trondheim, pp. 224-236, June 1987. (Co-author J. Yan).
- "Upheaval Creep of Buried Heated Pipelines with Imperfections", Marine Structures, Vol. 1, No. 1, pp. 11-22, 1988. (Co-author J. Juncher Jensen).
- "New Design Criteria for Upheaval Creep of Buried Sub-sea Pipelines", Vol. V, Proceedings of the Seventh Int. Conference on Offshore Mechanics and Arctic Engineering, Houston, USA, pp. 243-250, 1988. (Co-authors N. Rishøj-Nielsen, A. Grundig, B. Lyngberg).
- "Large Deflection Upheaval Buckling of Marine Pipelines", Proceedings of Behaviour of Offshore Structures, Trondheim, Norway, Editors Moan, Janby and Faltinsen, pp. 965-980, June 1988. (Co-author J. Michelsen).
- "Practical Optimization of Marine Structures", pp. 1-47. Proceedings Computer Aided Optimal Structural Design, Aalborg University, June 1989.
- "Static and Dynamic Analysis of Thin-Walled Beam Structures", International Rostocker Schiffstechnische Symposium, Volume 2, pp. 25-57, October 1989.
- "Vibration Analysis of Imperfect Marine Structural Elements", Proceedings of the Fourth International Symposium on Practical Design of Ships and Mobile Units, Varna, October 1989. (Co-author J. Wedel-Heinen).
- "The Effect of a Non-Linear Wave Force Model on the Reliability of a Jack-Up Platform", Proceedings 3rd IFIP Conf. on Reliability and Optimization of Structural Systems, Berkeley, California, USA, March 1990. (Co-authors J. Juncher Jensen, H.O. Madsen).
- "Upheaval Buckling Failure of Insulated Buried Pipelines - A Case Story", Proc. 22nd Annual Offshore Technology Conference, Houston, Texas, USA, May 1990, pp. 581-591. (Co-authors N.R. Nielsen, B. Lyngberg).
- "Design Criteria for Upheaval Creep of Buried Sub-Sea Pipelines", Trans of the ASME, Journal of Offshore Mechanics and Arctic Engineering, Nov. Vol. 112, pp. 290-297, 1990. (Co-authors N.R. Nielsen, A.K. Grundy, B. Lyngberg).
- "Ship Simulations as an Integrated Part of the Design Process for Bridges Crossing Waterways", Bulletin for Permanent Int. Ass. of Navigation Congresses Bulletin, 1991 - No. 72, pp. 139-148. (Co-authors J. Bay, S. Spangenberg, N.H. Olsen).
- "Prediction of Non-Linear Wave-Induced Loads in Ships"- Proc. IUTAM Symposium of Dynamics of Marine Vehicles and Structures in Waves. Brunel University, June 1990. Editors Price, Temarel and Keane, Developments in Marine Technology, Vol. 7, pp. 274-290, Elsevier, Amsterdam - Oxford - New York - Tokyo 1991. (Co-authors J. Juncher Jensen, J. Buus Petersen)
- "Ship Impact Analysis for Bottom Supported Offshore Structures". Proc. Conf. on Advances in Marine Structures 2, Dunfermline, Scotland. Elsevier Applied Science Publishers, pp. 276-295, 1991. (Co-author J. Juncher Jensen).
- "Earthquake Response of Offshore Structures", Offshore Mechanics and Arctic Engineering, Vol. 1 - Part B, pp. 571-578, 1991. (Co-author Y. Bai).
- "Reliability of Jack-up Platforms Against Overturning", Marine Structures, Vol. 4, No. 3, pp. 203-231, 1991. (Co-authors J. Juncher Jensen, A. Mansour).
- "Collision Analysis of Offshore Platforms and Bridges", ISMS'91 Int. Symposium on Marine Structures, Shanghai, China, pp. 63-73, September 1991.

- "Vibration of Imperfect Ship Plating", *Marine Structures*, Vol. 4, pp. 571-593, 1991. (Co-author J. Wedel-Heinen).
- "A Bayesian Inspection Procedure Applied to Offshore Steel Platforms". *Proceedings Behaviour of Offshore Structures*, London, UK July 1992. Vol. 1, pp. 629-642. (Co-author J. Juncher Jensen).
- "Beam Theories for Torsional-Bending Response of Ship Hulls", *Journal of Ship Research*, Vol. 35, No. 3, pp. 254-265, Sept. 1991.
- "Collapse Analysis of Ship Hulls", *Marine Structures*. Vol. 6, pp. 485-507, 1993. (Co-author Y. Bai & E. Bendiksen)
- "Ship Impacts - Bow Collisions", *Int. Journal of Impact Engineering*, Vol. 13, no. 2, pp. 163-187, 1993. (Co-author S. Valsgaard, D. Olsen & S. Spangenberg).
- "Stresses in Containerships", *Jahrbuch der Schiffbautechnische Gesellschaft* 1992, Vol. 86, pp. 143-150. (Co-authors J.J. Jensen & J.B. Petersen)
- "Elastic-Plastic Behaviour of Offshore Steel Structures under Impact Loads" *Int. Journal of Impact Engineering*, Vol. 13, no. 1, pp. 99-115, 1993. (Co-author Y. Bai)
- "Ship Grounding and Hull-Girder Strength", *Marine Structures*, Vol. 7, pp. 1-29, 1994.
- "Wave-induced Springing and Whipping of High-speed Vessels" *Proceedings. Int. Conf. on Hydroelasticity in Marine Technology*. Norway May 1994, (eds. O. Faltinsen et al.) Trondheim, pp. 191-204. (Co-authors. P. Friis Hansen & J. Juncher Jensen).
- "Buckling Behaviour of Imperfect Spherical Shells Subjected to Different Load Conditions", *Thin-Walled Structures*, Vol. 23, pp 41-45, 1995. (Co-author J. Juncher Jensen).
- "Reliability Based Inspection Planning of a Jack-Up Rig". *Proc. Behaviour of Offshore Structures*, MIT, USA, Editors Chryssostimides and Connor, Pergamon, Vol 3., pp. 377-400, July 1994. (Co-authors L.P. Nielsen P. Friis Hansen, J. Juncher Jensen & J. Baatrup).
- "Collision and Grounding Mechanics" *Proc. WEMT'95*, Editors Jensen & Jessen, pp. 125-157, Copenhagen, May 1995.
- "Dynamics of Ships Running Aground". Vol. 1, No. 1 of *Journal of Marine Science and Technology* 1995, SNAJ, pp 37-45. (Co-author Bo C. Simonsen).
- "Analysis of Ship Groundings on Soft Sea Beds". *Proceedings sixth Int. Symp. On Practical Design of Ships and Mobile Units (PRADS'95)* The Society of Naval Architects of Korea, Seoul, pp. 2.1096-2.1108, Sept. 1995 (Co-author Bo C. Simonsen).
- "On Design of Double Hull Tanks Against Collisions". *Proceedings sixth Int. Symp. On Practical Design of Ships and Mobile Units (PRADS'95)* The Society of Naval Architects of Korea, Seoul, pp. 2.992-2.1009, Sept. 1995. (Co-author J. Paik).
- "Large-Scale Grounding Experiments on Soft Bottoms", *Proceedings Marienv'95*, The Society of Naval Architects of Japan, Tokyo, pp 122-129, Vol. 1, Sept. 1995 (Co-author M. Sterndorff)
- "Collapse of a Ship's Hull due to Grounding". *Proceedings Marienv'95*, The Society of Naval Architects of Japan, Tokyo, pp 75-80, Vol. 1, Sept. 1995 (Co-author J. Paik)
- "Long Term Springing and Whipping Stresses in High Speed Vessels" *Proceedings of FAST'95*, Lübeck-Travemünde, Germany, pp 473-485, Sept. 1995. (Co-authors J. Juncher Jensen & P. Friis Hansen).
- "Ultimate and Crushing Strength of Plated Structures", *Journal of Ship Research*, Vol 39, No. 3, pp 250-261, Sept. 1995. (Co-author J. Paik).
- "Outer Dynamics of Ship Collisions". 22nd WEGEMT Graduate School. *Accidental Loadings on Marine Structures: Risk and Response*. Copenhagen 1995 and Royal Institution of Naval Architects 1996. London : The Marine Technology Directorate Ltd. Part 10, 29 s.
- "Probability of Grounding and Collision Events". 22nd WEGEMT Graduate School. *Accidental Loadings on Marine Structures: Risk and Response*. Copenhagen 1995, and Royal Institution of Naval Architects 1996. London: The Marine Technology Directorate Ltd. Part 3, 20 p.
- "Bow Crushing Forces". 22nd WEGEMT Graduate School. *Accidental Loadings on Marine Structures: Risk and Response*. Copenhagen 1995, and Royal Institution of Naval Architects 1996. London: The Marine Technology Directorate Ltd. Part 13, 45 p.
- "Mechanics of Ship Grounding". 22nd WEGEMT Graduate School. *Accidental Loadings on Marine Structures: Risk and Response*. Copenhagen 1995, and Royal Institution of Naval Architects 1996. London: The Marine Technology Directorate Ltd. Part 15, 53p.

- "Modelling of the Internal Mechanics in Ship Collisions". Ocean Engineering. Vol. 23, No. 2, pp 107-142, 1996. (Co-author J. Paik).
- "Measures of Model Uncertainty in the Assessment of Primary Stresses in Ship Structures" Marine Structures Vol. 9, pp 427-447, 1996. (Co-authors: Dogliani, M.; Guedes Soares, C.; Parmentier and Östergaard, C.)
- "Collision Risk and Damage after Collision" The Safety of Passenger Ro-Ro Vessels. Proceedings, Royal Institution of Naval Architects, International Conference on the Safety of Passenger Ro-Ro Vessels, Paper No. 1, June 1996 (Co-authors: Friis Hansen, P. and Nielsen, L.P.)
- "Grounding-Induced Sectional Forces and Residual Strength of Grounded Ship Hulls". Proc. Sixth Int. Society of Offshore and Polar Engineering, Los Angeles, US, Vol. IV, pp 517-523 May 1996 (Co-author J.K. Paik).
- "Proposal for modified damage probability distributions "p", "r" and "v"" Submitted for Int. Maritime Organisation (IMO) Sub. Committee on Stability and Load Lines and on Fishing Vessel Safety by Denmark, Finland, Norway, Sweden and United Kingdom, June 1996.
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