

Publications 1958 - 2015

(textbooks and book reviews not included)

Per Chr. Hemmer

2015

The Fiber Bundle Model.

Modeling Failure in Materials

(Alex Hansen, Per C. Hemmer, Srutarshi Pradhan)

Wiley-VCH Verlag, 2015.

ISBN 978-3-527-41214-3

Minneord over Torbjørn Sikkeland

(Per Chr. Hemmer)

NTVAs årbok 2015, 100-101.

2014

Rational independence of oscillator frequencies

(Per Chr. Hemmer)

DKNVS Skrifter Nr. 3, 95-97 (2014).

The Fiber Bundle Model

(A. Hansen, P.C. Hemmer and S. Pradhan)

pp. 69-81 in *5th Warsaw School of Statistical Physics*, Warsaw University Press (2014).

Johan Skule Høye is 70

(Per Chr. Hemmer and Iver H. Brevik)

DKNVS Skrifter Nr. 3, 1-2 (2014).

2013

Øystein H. Fischer

(J. Grepstad, T. Tybell, K. Fossheim, A. Sudbø og P.C. Hemmer)

Fra Fysikkens Verden **75**, 98 (2013).

2012

Time needed to board an airplane: A power law and the structure behind it

(Vidar Frette and Per C. Hemmer)

Phys.Rev. E **85**, 011130 (2012)

Adriaan Fokker

(Per Chr. Hemmer og Ola Kai Ledang)

Høydepunkter i Skrifter og Forhandlinger. DKNVS Skrifter 2011 nr.4, 197-201 (2012).

Ralph Kronig

(Per Chr. Hemmer og Kåre Olaussen)

Høydepunkter i Skrifter og Forhandlinger. DKNVS Skrifter 2011 nr.4, 203-208 (2012).

Queues on narrow roads and in airplanes

(Vidar Frette and Per C. Hemmer)

AIP Conference Proceedings **1332**, 253 (2012)

2011

Exact solution of a confined two-particle system with calculation of its dead-layer size

(F. B. Pedersen and P. C. Hemmer)

Molecular Physics **109**, 551-558 (2011)

IUPAP

(Per Chr. Hemmer)

Fra Fysikkens Verden **73**, 138 (2011)

Prediction of the collapse point of overloaded materials by monitoring energy emissions

(S. Pradhan and P. C. Hemmer)

Phys.Rev.E **83**, 041116 (2011)

2010

Fysikk i Trondheim gjennom 100 år

(Per Chr. Hemmer, Anders Johnsson, Kjell Mork og Ivar Svare)

Institutt for fysikk, Trondheim, 2010. ISBN 978-82-8052-200-9

2009

Velocity and cluster distributions in a bottleneck system

(Vidar Frette and Per Chr. Hemmer)

Phys.Rev. E **80**, 051115 (2009)

Breaking rate minimum predicts the collapse point of over-loaded materials

(S. Pradhan and P. C. Hemmer)

Phys.Rev. E **79**, 041146 (2009)

Burst statistics as a criterion for imminent failure

(S. Pradhan, Alex Hansen, and P. C. Hemmer)

In F.M. Borovich (ed.) *Symposium on Scaling in Solid Mechanics*, vol. **10** (Springer 2009)

2008

Energy bursts in fiber bundle models of composite materials

(S. Pradhan and P. C. Hemmer)

Phys.Rev. E **77**, 031138 (2008)

2007

Relaxation dynamics in strained fiber bundles

(S. Pradhan and P. C. Hemmer)

Phys.Rev. E **75**, 056112 (2007)

Failure avalanches in fiber bundles for discrete load increase

(P. C. Hemmer and S. Pradhan)

Phys.Rev. E **75** 046101 (2007)

2006

Rupture processes in fiber bundle models

(P. C. Hemmer, A. Hansen, and S. Pradhan)

pp. 27-55 in *Modelling Critical and Catastrophical Phenomena in Geoscience: A Statistical Physics Approach*, Lecture Notes in Physics **705** (Springer, 2006)

Crossover behavior in failure avalanches

(S. Pradhan, A. Hansen, and P. C. Hemmer)

Phys.Rev. E **74**, 06122 (2006)

LARS ONSAGER – Chemistry, 1968

(Per Chr. Hemmer and Eivind Hiis Hauge)

pp.191-217, 398-400 in O. Njølstad, *Norwegian Nobel Prize Laureates* (Universitetsforlaget, 2006)

Dobbel Onsager til Baxter

(P. C. Hemmer)

Fra Fysikkens Verden **68**, (2006)

Technapris til Jo Smiseth og Eivind Smørgrav

(P. C. Hemmer)

Fra Fysikkens Verden **68**, 5 (2006)

2005

Crossover behavior in burst avalanches: Signature of imminent failure

(S. Pradhan, A. Hansen, and P. C. Hemmer)

Phys.Rev.Lett. **95**, 125501 (2005)

LARS ONSAGER – Kjemiprisen 1968

(Per Chr. Hemmer og Eivind Hiis Hauge)

pp.189-214, 389-392 in O. Njølstad., *Norske Nobelprisvinnere* (Universitetsforlaget, 2005)

Werner Romberg

(Per Chr. Hemmer)

Nekrolog, pp.125-126 i ÅRBOK 2005, NTVA

Lars Onsager

(Per Christian Hemmer)

Ch. 19 in *Naturens kode*, edited by Gaute T. Einevoll and Eirik Newth (Gyldendal 2005)

Storforsk til Arne Brataas

(Per Chr. Hemmer)

Fra Fysikkens Verden **67**, 5 (2005)

2003

Lars Onsager – 100 år

(Per Chr. Hemmer)

Fra Fysikkens Verden **65**, 99 (2003)

2002

Phase transitions in a mixture of rodlike colloids and stiff polymers

(T. H. Martinsen and P. C. Hemmer)

Molecular.Phys. **100**, 667 (2002)

2001

Solid-solid transitions induced by repulsive interactions

(P. C. Hemmer, E. Velasco, L. Mederos, G. Navascués, and G. Stell)

J. Chem. Phys. **114**, 2268 (2001)

A generalization of the Smoluchowski coagulation equation

(P. C. Hemmer)

Polish J. Chem. **75**, 571 (2001). Jan Stecki Festschrift

Onsager, Lars (1903 -1976)

(Per Chr. Hemmer)

pp.927-930 in *Macmillan Encyclopedia of Energy* (Macmillan 2001)

2000

Complex phase behavior induced by repulsive interactions

(E. Velasco, L. Mederos, G. Navascués, P. C. Hemmer, and G. Stell)
Phys. Rev. Lett. **85**, 122 (2000)

Demixing in isotropic binary mixtures of rod-like macromolecules

(P. C. Hemmer)
J. Stat. Physics **100**, 3 (2000)

1999

Phase transitions in a solution of rodlike macromolecules of two different sizes

(P. C. Hemmer)
Molec. Physics **96**, 1153 (1999)

Matching conditions for effective-mass functions at an abrupt heterojunction, tested on an exactly solvable model

(U. E. H. Laheld and P. C. Hemmer)
Phys. Scripta **59**, 205 (1999)

1998

Lattice covering by two random walkers in one dimension

(P. C. Hemmer and S. Hemmer)
Physica A **251**, 245 (1998), J.M.J. van Leeuwen Festschrift

Simultaneous failures in fiber bundles

(Alex Hansen and Per C. Hemmer)
pp.1-10 in *PROBMAT – 21 Century: Probabilities and Materials* (Kluwer 1998)

Hva heter de tunge grunnstoffene?

(Per Chr. Hemmer)
Fra Fysikkens Verden **60**, 21 (1998)

1997

Burst avalanches in solvable models of fibrous materials

(M. Kloster, A. Hansen, and P. C. Hemmer)
Phys.Rev. E **56**, 2615 (1997)

Moderne fysikk 100 år

(Per Chr. Hemmer)
Fra Fysikkens Verden **59**, 37 (1997)

1996

The Collected Works of Lars Onsager, with commentary

(P. C. Hemmer, H. Holden, and S. K. Ratkje, eds.)
World Scientific, Singapore, 1996

Teorioppgavene i Fysikk-OL

(Per Chr. Hemmer)
Fra Fysikkens Verden **58**, 82, 118 (1996)

1995

Exciton affinity of quantum dots

(F. B. Pedersen, U. E. H. Laheld and P. C. Hemmer)
Superlattices and Microstructures **17**, 431 (1995)

Excitons in type-II quantum dots: Finite offsets
(U. E. H. Laheld, F. B. Pedersen, and P. C. Hemmer)
Phys.Rev. B **52**, 2697 (1995)

Criticality in fracture: The burst distribution
(Alex Hansen and Per C. Hemmer)
pp.213-224 in Trends in Statistical Physics (Research Trends, Trivandrum, India, 1995)

1994

Sensitivity of wave function envelopes upon interface position: Semiconductor-insulator boundary
(F. B. Pedersen and P. C. Hemmer)
Phys.Rev. B **50**, 7724 (1994)

Satellite problem with application to exciton binding
(U. E. H. Laheld and P. C. Hemmer)
Phys.Rev. B **49**, 10739 (1994)

Burst avalanches in bundles of fibers: Local versus global load sharing
(Alex Hansen and P. C. Hemmer)
Phys.Lett. A **184**, 394 (1994)

1993

Excitons in type-II quantum dots: Binding of spatially separated electron and hole
(U. E. H. Laheld, F. B. Pedersen, and P. C. Hemmer)
Phys.Rev. B **48**, 4659 (1993)

Confinement by massive walls
(P. C. Hemmer and D. T. Wang)
Phys.Rev. B **47**, 6603 (1993)

Time evolution of correlations in a random sequential adsorption process
(F. B. Pedersen and P. C. Hemmer)
J. Chem. Phys. **98**, 2279 (1993)

Lars Onsager – en stor fysiker og kjemiker
(P. C. Hemmer og E. H. Hauge)
Fra Fysikkens Verden **55**, 100 (1993)

1992

Effective bond-orbital method tested on an exactly solvable model
(F. B. Pedersen, G. T. Einevoll, and P. C. Hemmer)
Phys.Rev. B **45**, 11949 (1992)

From poisoning of Flory pairing on polymers to random parking of cars and bicycles
(P. C. Hemmer)
Physica Scripta **T44**, 62 (1992). Jens Lothe Festschrift.

Distribution of simultaneous failures in a fiber bundle
(P. C. Hemmer and A. Hansen)
J. Appl. Mech. **59**, 909 (1992)

1991

Wannier functions for the Kronig-Penney modell

(F. B. Pedersen, G. T. Einevoll, and P. C. Hemmer)

Phys.Rev. B **44**, 5470 (1991)

Superlattice minibands: Explicit formulae for band gaps and effective masses

(G. T. Einevoll and P. C. Hemmer)

Semicond. Sci. Techn. **6**, 590 (1991)

Effective-mass boundary conditions for strained heterostructures

(G. T. Einevoll and P. C. Hemmer)

pp.503-506 in *Granular Nanoelectronics* (D. K. Ferry, J. R. Barker, and C. Jacoboni, eds.)
(Plenum Press, 1991)

1990

Strong short-range attractions in a fluid

(P. C. Hemmer and G. Stell)

J. Chem. Phys. **93**, 8820 (1990)

The direct correlation function for an interface of a two-dimensional model in a weak gravitational field

(P. C. Hemmer and J. Stecki)

J. Phys. A.: Math. Gen. **23**, 1735 (1990)

Operator ordering in effective-mass theory for heterostructures: I. Comparison with exact results for superlattices, quantum wells, and localized potentials

(G. T. Einevoll, P. C. Hemmer, and J. Thomsen)

Phys.Rev. B **42**, 3485 (1990)

1989

The random parking problem

(P. C. Hemmer)

J. Stat. Phys. **57**, 865 (1989). E.G.D. Cohen Festschrift

Operator ordering in effective-mass theory

(J. Thomsen, G. T. Einevoll, and P. C. Hemmer)

Phys.Rev. B **39**, 12783 (1989)

1988

Spatial distribution of ions around rod-like polyelectrolytes

(G. T. Einevoll and P. C. Hemmer)

J. Chem. Phys. **89**, 474 (1988)

The triangular antiferromagnet with infinite nearest-neighbour coupling

(G. Einevoll and P. C. Hemmer)

J. Phys. C: Solid State Phys. **21**, L615 (1988)

Winding numbers for the supercritical sine circle map

(E. J. Ding and P. C. Hemmer)

Physica D **32**, 153 (1988)

The effective Hamiltonian for abrupt heterostructures

(G. T. Einevoll and P. C. Hemmer)

J. Phys. C: Solid State Phys. **21**, L1193 (1988)

Correlations at a liquid-gas interface: Asymptotic analysis for weak gravity

(P. C. Hemmer and B. Lund)

J. Phys. A: Math. Gen. **21**, 3463 (1988)

Reisebrev fra Kina

(Per Chr. Hemmer)

Fra Fysikkens Verden **50**, 100 (1988)

1987

Exact treatment of mode locking for a piecewise linear map

(E. J. Ding and P. C. Hemmer)

J. Stat. Phys. **46**, 99 (1987)

Harald Wergeland. Minnetale i Det Norske Videnskaps-Akademi

(Per Christian Hemmer)

Det N. Vid. Akademis Årbok 1987

Professor Harald Wergeland 1912-1987

(Per Chr. Hemmer og Haakon Olsen)

Fra Fysikkens Verden **44**, 74 (1987)

1986

Trapping of genuine self-avoiding walks

(S. Hemmer and P. C. Hemmer)

Phys. Rev. A **34**, 3304 (1986)

1985

Field-dependent crystal forms and shape transitions in two dimensions

(P. A. Slotte and P. C. Hemmer)

J. Phys. A: Math. Gen. **18**, 1533 (1985)

1984

Iterative properties of nonquadratic one-dimensional maps

(A. Mo and P. C. Hemmer)

Physica Scripta **29**, 296 (1984)

The exact invariant density for a cusp-shaped return map

(P. C. Hemmer)

J. Phys. A: Math. Gen. **17**, L247 (1984)

The triangular Ising antiferromagnet with first- and second-neighbour interactions

(P. A. Slotte and P. C. Hemmer)

J. Phys. C: Solid State Phys. **17**, 4645 (1984)

An average self-avoiding random walk on the square lattice lasts 71 steps

(S. Hemmer and P. C. Hemmer)

J. Chem. Phys. **81**, 584 (1984)

Head-on collisions between solitary surface waves on shallow water: Theory and experiment

(A. Mo and P. C. Hemmer)

Ark. Fys. Sem. No. 9 (1984)

1983

Recurrences in multidimensional arithmetic sequences

(S. Hemmer and P. C. Hemmer)

Math. Proc. Cambridge Phil. Soc. **93**, 393 (1983)

The antiferromagnetic phase of the Ising model with first- and second-neighbour interactions

(J. Dóczy-Réger and P. C. Hemmer)

Phys. Stat. Solidi B **116**, K67 (1983)

1982

The drift velocity of a hard-sphere Lorentz gas

(K. Olaussen and P. C. Hemmer)

J. Phys. A **15**, 3225 (1982)

The scavenger problem in diffusion-controlled recombination

(S. Raaen and P. C. Hemmer)

J. Chem. Phys. **76**, 2569 (1982)

Nobelpris for renormaliseringsteori

(P. C. Hemmer)

Fra Fysikkens Verden **44**, 74 (1982)

Harald Wergeland 70 år

(Per Chr. Hemmer og Haakon Olsen)

Fra Fysikkens Verden **44**, 1 (1982)

1981

Phase diagram of the triangular Ising antiferromagnet

(J. Dóczy-Réger and P. C. Hemmer)

Physica A **108**, 531 (1981)

Second-order phase transitions in triangular Ising models with two- and three-spin interactions

(J. Dóczy-Réger and P. C. Hemmer)

Physica A **109**, 541 (1981)

1980

Correlated percolation on a quadratic lattice

(M. Napiórkowski and P. C. Hemmer)

Phys. Lett. A **76**, 359 (1980)

Non-universal spin systems on Union Jack lattices

(M. Gitterman and P. C. Hemmer)

J. Phys. C: Solid State Phys. **13**, L329 (1980)

Combined site and bond percolation with nearest- and next-nearest-neighbour bonds

(M. Napiórkowski and P. C. Hemmer)

Phys. Lett. A **75**, 153 (1980)

Renormalization without tears

(P. C. Hemmer)

Lecture notes, Spåtind Winter School 1980

1979

The distribution of D-galactose residues in guaran and locust-bean gum

(T. J. Painter, J. J. González, and P. C. Hemmer)

Carbohydrate Research **69**, 217 (1979)

Renormalization of self-avoiding walks by non-linear transformations

(M. Napiórkowski, E. H. Hauge, and P. C. Hemmer)

Phys. Lett. A **72**, 193 (1979)

Solitoner

(P. C. Hemmer)

Fra Fysikkens Verden **41**, 85 (1979)

1978

Position-space renormalization for systems with weak long-range interactions and the breakdown of hyperscaling

(H. J. F. Knops, J. M. J. van Leeuwen, and P. C. Hemmer)

Ann. Israel Phys. Soc. **2**, 540 (1978)

Mean-field criterion for ferromagnetism in liquids

(P. C. Hemmer and D. Imbro)

Ann. Israel Phys. Soc. **2**, 540 (1978)

Multiple steady states for the Degn-Harrison reaction scheme of a bacterial culture

(P. C. Hemmer and M. G. Velarde)

Zeits. Phys. B **31**, 111 (1978)

1977

Some biological functions of matrix components in bentic algae in relation to their chemistry and the composition of seawater

(Inger-Lill Andresen, Olav Skipnes, Olav Smidsrød, Kjetill Østgaard, and Per Chr. Hemmer)

pp. 361-381 in *Cellulose Chemistry and Technology*, ACS Symp. Series **48** (Am. Chem. Soc., 1977)

Sequential analysis by cooperative reactions on copolymers. III. Second-order Markovian chains with arbitrary protection

(J. J. González and P. C. Hemmer)

J. Chem. Phys. **67**, 2506 (1977)

Sequential analysis by cooperative reactions on copolymers. II. Binary copolymers with one protective monomer type

(J. J. González and P. C. Hemmer)

J. Chem. Phys. **67**, 2496 (1977)

Homopolymers: A theoretical study of neighbour-group effects in repeated periodate oxidation of polysaccharides. I.

(P. C. Hemmer and J. J. González)

J. Polym. Sci. (Polym. Phys. Ed.) **15**, 321 (1977)

Ferromagnetic fluids

(P. C. Hemmer and D. Imbro)

Phys. Rev. A **16**, 380 (1977)

The three recurrence times for irrational arithmetic sequences

(W. C. Davidon and P. C. Hemmer)

Arkiv for Det Fysiske Seminar i Trondheim No. 5 (1977)

Position-space renormalization for systems with weak long-range interactions and the breakdown of hyperscaling

(H. J. F. Knops, J. M. J. van Leeuwen, and P. C. Hemmer)

J. Stat. Phys. **17**, 197 (1977)

1976

Cumulant expansion in renormalization-group transformations on Ising spins

(Aa. S. Sudbø and P. C. Hemmer)

Phys.Rev. B **13**, 980 (1976)

The cumulant expansion in renormalization-group transformations: The convergence question and the dependence upon cell size

(P. C. Hemmer and M. G. Velarde)

J. Phys. A: Math. Gen. **9**, 1713 (1976)

Critical properties of spins with pair and triplet interactions on a triangular lattice

(D. Imbro and P. C. Hemmer)

Phys. Lett. A **57**, 297 (1976)

Sequential analysis by cooperative reactions on copolymers: I. A theoretical treatment

(J. J. González and P. C. Hemmer)

J. Polym. Sci (Polym. Lett. Ed.) **14**, 645 (1976)

Ising models with two- and three-spin interactions: Mean-field equation of state

(S. Frøyen, Aa. S. Sudbø, and P. C. Hemmer)

Physica A **85**, 399 (1976)

Systems with weak long-range forces

(P. C. Hemmer and J. L. Lebowitz)

pp. 109-203 in *Phase Transitions and Critical Phenomena* Vol. **5b** (Academic Press, 1976)

1975

Wilson theory. II. The d-dimensional mean spherical model

(J. J. González, E. H. Hauge, and P. C. Hemmer)

Phys. Rev. B **12**, 198 (1975)

Wilson theory. I. An exactly solvable example

(J. J. González, E. H. Hauge, and P. C. Hemmer)

Phys. Rev. B **11**, 1952 (1975)

On Wilson theory for Ising systems with pair and triplet spin interactions

(H. J. Braathen and P. C. Hemmer)

Phys. Norvegica **6**, 69 (1975)

1974

Cooperative effects in random sequential polymer reactions

(J. J. González, P. C. Hemmer, and J. S. Høye)

Chem. Phys. **3**, 228 (1974)

1973

Nonnegativity of the Yukawa Hamiltonian

(P. C. Hemmer)

J. Math. Phys. **14**, 1140 (1973)

On the connection between the number of phase transitions and the form of the intermolecular repulsion

(J. S. Høye and P. C. Hemmer)

Phys. Norvegica **7**, 1 (1973)

Note on thermodynamic perturbation theory for simple fluids

(J. Stecki and P. C. Hemmer)

Ark. Fys. Sem. i Trondheim No. 4 (1973)

1972

Phase transitions due to the softness of the potential core

(G. Stell and P. C. Hemmer)

J. Chem. Phys. **56**, 4274 (1972)

On the existence of a two-dimensional classical plasma

(J. J. González and P. C. Hemmer)

Phys. Lett. A **42**, 263 (1972)

1971

The two-dimensional Coulomb gas

(E. H. Hauge and P. C. Hemmer)

Phys. Norvegica **5**, 206 (1972). Harald Wergeland Festschrift

Radius of convergence of the ideal Bose gas virial expansion

(Ø. O. Jenssen and P. C. Hemmer)

Phys. Lett. A **35**, 149 (1971)

Comments on specific heats for lattice and continuum gases

(J. S. Høye and P. C. Hemmer)

Phys. Norvegica **5**, 87 (1971)

The imperfect classical gas

(P. C. Hemmer)

Ch. 9 in *Problems in thermodynamics and statistical physics* (Pion, London, 1971)

Radioaktivt nedfall og barnedødelighet

(Tormod Førland, Terje Østvold og Per Chr. Hemmer)

Verdens Gang 07.09.1971

1970

Fluids with several phase transitions

(P. C. Hemmer and G. Stell)

Phys. Rev. Lett. **24**, 1284 (1970)

1969

Exact solution of the half-space problem in small-angle scattering

(W. K. Theumann and P. C. Hemmer)

Nuovo Cimento **64B**, 255 (1969)

Note on the quantum displacement of the critical point

(T. S. Nilsen and P. C. Hemmer)

J. Stat. Phys. **1**, 175 (1969)

1968

The hard-core quantum gas at high temperatures

(P. C. Hemmer)

Phys. Lett. A **27**, 377 (1968)

The general fluctuation theorem

(P. C. Hemmer)

Phys. Norvegica **3**, 9 (1968)

Multiple scattering in the Gaussian approximation: Systematic improvement of the small-angle treatment

(P. C. Hemmer and I. E. Farquhar)

Phys. Rev. **168**, 294 (1968)

1967

Quantum-mechanical second virial coefficient of a hard-sphere gas at high temperatures

(P. C. Hemmer and K. J. Mork)

Phys. Rev. **158**, 114 (1967)

Zeros of the grand partition function of a hard-core lattice gas

(T. S. Nilsen and P. C. Hemmer)

J. Chem. Phys. **46**, 2640 (1967)

Mechanical models for Brownian motion

(Per Chr. Hemmer)

Lecture notes, Spåtind Winter School 1967.

1966

Distribution of zeros of the grand partition function

(P. C. Hemmer, E. H. Hauge, and J. O. Aasen)

J. Math. Phys. **7**, 35 (1966)

Some exact results in the theory of Brownian motion

(I. Fujiwara, P. C. Hemmer, and H. Wergeland)

Progr. Theor. Phys. Suppl. **37/38**, 141 (1966). Tomonaga Festschrift

Fluids with weak long-range forces

(E. Hiis Hauge and P. C. Hemmer)

J. Chem. Phys. **45**, 323 (1966)

1965

On critical phenomena in a van der Waals gas

(G. E. Uhlenbeck and P. C. Hemmer)

pp. 241-252 in *Statistical Mechanics of Equilibrium and Non-Equilibrium* (North-Holland, 1965)

Virial coefficients for the hard-core gas in two dimensions

(P. C. Hemmer)

J. Chem. Phys. **42**, 116 (1965)

1964

Yang-Lee distribution of zeros for a van der Waals gas

(P. C. Hemmer and E. H. Hauge)

Phys. Rev. **133**, A1010 (1964)

On the van der Waals theory of vapour-liquid equilibrium. IV. The pair correlation function and equation of state for long-range forces

(P. C. Hemmer)

J. Math. Phys. **5**, 75 (1964)

On the van der Waals theory of vapor-liquid equilibrium. III. Discussion of the critical region

(P. C. Hemmer, M. Kac, and G. E. Uhlenbeck)

J. Math. Phys. **5**, 60 (1964)

Reprinted in E. H. Lieb and D. C. Mattis (eds) *Mathematical Physics in One Dimension* (Academic Press, 1966), and in D.C. Mattis (ed.) *The Many-Body Problem* (World Scientific, 1993)

1963

On the Yang-Lee distribution of roots

(E. Hiis Hauge and P. C. Hemmer)

Physica **29**, 1338 (1963)

On the van der Waals theory of vapor-liquid equilibrium. II. Discussion of the distribution functions

(G. E. Uhlenbeck, P. C. Hemmer, and M. Kac)

J. Math. Phys. **4**, 229 (1963)

On the van der Waals theory of vapor-liquid equilibrium. I. Discussion of a one-dimensional model

(M. Kac, G. E. Uhlenbeck, and P. C. Hemmer)

J. Math. Phys. **4**, 216 (1964)

Reprinted in H. L. Frisch and J. L. Lebowitz (eds) *The Equilibrium Theory of Classical Fluids* (Benjamin, 1964), in E. H. Lieb and D. C. Mattis (eds) *Mathematical Physics in One Dimension* (Academic Press, 1966), and in D.C. Mattis (ed.) *The Many-Body Problem* (World Scientific, 1993)

New aspects in classical dynamics I-II-III

(Fujiwara and P. Chr. Hemmer)

Kgl. Norske Vid. Selsk. Forh. **36**, 46,48,53 (1963)

1962

Deviation from I(I+1) dependence in nuclear rotational spectra

(Per Chr. Hemmer)

Nucl. Phys. **32**, 128 (1962)

1961

On a generalization of Smoluchowski's diffusion equation

(Per Chr. Hemmer)

Physica **27**, 79 (1961)

The relative intensity of the no-phonon line in the Mössbauer effect

(Per Chr. Hemmer)

Proc. Phys. Sem. Trondheim No. 3 (1961)

Gamma emission from nuclei in crystals

(P. Chr. Hemmer)

Kgl. Norske Vid. Selsk. Forh. **34**, 86 (1961)

Mössbauer-effekten

(Per Christian Hemmer)

Fra Fysikkens Verden **23**, 154 (1961)

1960

On multiple scattering corrections for collimators

(Per Chr. Hemmer)

Kgl. Norske Vid. Selsk. Forh. **33**, 80 (1960)

1959

Dynamic and Stochastic Types of Motion in the Linear Chain (Dr. techn. thesis)

(Per Chr. Hemmer)

Proc. Fys. Sem. Trondheim No.2 (1959; *Nordita Publ.* No. 32)

A problem in geometrical probabilities

(P. Chr. Hemmer)

Kgl. Norske Vid. Selsk. Forh. **32**, 117 (1959)

Varmeledning i elektrisk isolerende krystaller

(Per Chr. Hemmer)

Fra Fysikkens Verden **21**, 2 (1959)

1958

Recurrence time of a dynamical system

(P. Chr. Hemmer, L. C. Maximon, and H. Wergeland)

Phys. Rev. **111**, 689 (1958)

Brownian motion of a particle in a linear chain

(P. Chr. Hemmer and H. Wergeland)

Kgl. Norske Vid. Selsk. Forh. **30**, 137 (1958)

Note on the derivation of the Hamiltonian operator as presented in some textbooks of quantum chemistry

(K. Grjotheim and P. Chr. Hemmer)

Phys. Chem. **208**, 378 (1958)

Sivilforsvaret og militærnektene

(Per Christian Hemmer)

Dagbladet (1958)