

## Publications

(textbooks and book reviews not included)

### 2011

#### **The time needed to board an airplane**

(Vidar Frette and Per Chr. Hemmer)  
(in preparation)

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

(S. Pradhan and P. C. Hemmer)  
*Phys.Rev.E* (2011), in press.

#### **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)

### 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 behaviour 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*, Gaute T. Einevoll and Eirik Newth (red.) (Gyldendal 2005)

### **Storforsk til Arne Brataas**

(Per Chr. Hemmer)

*Fra Fysikkens Verden* **68**, 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). 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), 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. Thomson)

*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. Thomson, 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-neighbor 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. II. Binary copolymers with one protective monomer type**

(J. J. González and P. C. Hemmer)

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



**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. I. An exactly solvable example**

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

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

**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. Jøssen 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 critical region**

(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. III. Discussion of the critical region**

(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 probability**

(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)