

CV Tom Lubensky (3/30/2011)

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Professional Preparation:

California Institute of Technology	Physics	B.S.	1964
Harvard University	Physics	M.A.	1965
Harvard University	Physics	Ph.D.	1969

Appointments:

2009- Christopher H. Browne Distinguished Professor of Physics, University of Pennsylvania

2001-2009 Chair, Department of Physics and Astronomy, University of Pennsylvania

2001 Poste Rouge au CNRS, Ecole Normale Supérieure, Lyon, France

1998-2009 Mary Amanda Wood Chair of Physics, University of Pennsylvania

1998-2001 Associate Director, Laboratory for Research in the Structure of Matter, University of Pennsylvania

1990-95 Consultant EXXON Research and Engineering, Annandale, New Jersey

1989-90 Visiting Research Associate at the Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI) de la Ville de *Paris* (Poste Rouge au CNRS)

1981-82 Visiting Professor at the Ecole Normale Supérieure, Paris, France

1980 Professor, University of Pennsylvania

1976 Research Associate, Harvard University

1975-80 Associate Professor, University of Pennsylvania

1971-75 Assistant Professor, University of Pennsylvania

1970-71 Postdoctoral Fellow, Brown University

1969-70 NSF Postdoctoral Fellow, University of Paris, Orsay, France

Honors and Awards:

2010 Michelin Professor at the Ecole École Supérieure de Physique et de Chimie Industrielles de la Ville de *Paris* (ESPCI)

2008 Elected to the American Academy of Arts and Sciences

2004 Honored Member of the International Liquid Crystal Society

2004 Oliver E. Buckley Prize of the American Physical Society

2002 Elected to the National Academy of Sciences

2000 Fellow, American Association for the Advancement of Science

1985 Fellow, American Physical Society

1981 Guggenheim Fellow

1975-77 Alfred P. Sloan Fellow

Service:

2011- Simons Foundation pane for Investigators in Physics

2010- Editorial Board of PNAS

- 2006 - Executive Committee of the International Liquid Crystal Society
- 2009 External Review Committee, Department of Physics, Korea Advanced Institute of Science and Technology (KAIST)
- 2008- Chair, Section 33 of the National Academy of Sciences
- 2007 External Review Committee, Department of Physics, Duke University
- 2006 External Review Committee, Korea Institute for Advanced Study (KIAS)
- 2006 External Review Committee, Department of Physics, Boston University
- 2001 External Review Committee, Department of Physics, University of Texas, Austin
- 2001 Chair, Gordon Conference on Liquid Crystals
- 1998-2001 Member-at-Large (elected) of the Executive Committee of the Division of Condensed Matter Physics (DCMP) of the American Physical Society
- 1998-2001 Member, Advisory Board for the Institute for Theoretical Physics, Santa Barbara
- 1997-2004 Editorial Board, Physical Review E
- 1996 Co-coordinator of Aspen Institute for Theoretical Physics program on Topological Defects in Soft Condensed Matter Physics
- 1996-99 Member of the Advisory Committee for Science of Soft Surfaces and Interfaces Program of the Canadian Institute for Advanced Research
- 1996- Member Editorial Advisory Board of Molecular Crystals and Liquid Crystals
- 1996-2002 Member Editorial Council of Annals of Physics
- 1992 Co-coordinator of Aspen Institute for Theoretical Physics program on Self-Assembling Systems
- 1988 Co-coordinator of Aspen Institute for Theoretical Physics program on Complex Fluids
- 1987-88 Co-coordinator of program on Quasicrystals and Related Structures at the Institute for Theoretical Physics in Santa Barbara

Publications of Tom C. Lubensky (3/30/2011)

Books

Chaikin, P.M., and Lubensky, T.C., *Principles of Condensed Matter Physics*, (Cambridge University Press, Cambridge, 1995).

Articles in Refereed Journals

1. Lubensky, T.C., Magnetic response functions I: conserving systems, *Annals of Physics* **64**, 424-451 (1971).
2. Lubensky, T.C., Magnetic response functions II: non-conserving systems, *Annals of Physics* **64**, 452-473 (1971).
3. Lubensky, T.C., A calculation of the elastic K_{11} for a nematic liquid crystal, *Physics Letters A* **33**, 202-203 (1970).
4. Lubensky, T.C., Molecular description of nematic liquid crystals, *Physical Review A* **2**, 2497-2514 (1970).
5. Forster, D., Lubensky, T.C., Martin, P.C., Swift, J., and Pershan, P.S. Hydrodynamics of liquid crystals, *Physical Review Letters* **26**, 1016-1019 (1971).
6. Lubensky, T.C., Hydrodynamics of cholesteric liquid crystals, *Physical Review A* **6**, 452-470 (1972).
7. Lubensky, T.C., Low-temperature phase of infinite cholesterics, *Physical Review Letters* **29**, 206-209 (1972).

8. Lubensky, T.C., A spin model for cholesteric liquid crystals, *Journal of Physics & Chemistry of Solids* **34**, 365-370 (1973).
9. Lubensky, T.C., A derivation of the hydrodynamical equations for superfluid helium, *Journal of Low Temperature Physics* **11**, 247-254 (1973).
10. Lubensky, T.C., Hydrodynamics of cholesterics in an external magnetic field, *Molecular Crystals & Liquid Crystals* **23**, 99-109 (1973).
11. Priest, R.G., and Lubensky, T.C., Biaxial model of cholesteric liquid crystals, *Physical Review A* **9**, 893-898 (1974).
12. Lubensky, T.C., and Rubin, M.H., ϵ -Expansion in semi-infinite Ising systems, *Physical Review Letters* **31**, 1469-1472 (1973).
13. Halperin, B.I., Lubensky, T.C., and Ma, S.-K., First-Order Phase Transition in superconductors and smectic-A liquid crystals, *Physical Review Letters* **32**, 292-295 (1974).
14. Halperin, B.I., and Lubensky, T.C., On the analogy between smectic-A liquid crystals and superconductors. *Solid State Communications* **14**, 997-1001 (1974).
15. Lubensky, T.C., and Priest, R.G., Critical exponents for a symmetric-traceless-tensor field theory model, *Physics Letters A* **48**, 103-104 (1974).
16. Lubensky, T.C., Latent heat of the cholesteric to smectic-A transition, *J. Phys. Colloq.* **1**, 151 (1975).
17. Harris, A.B., and Lubensky, T.C., Renormalization-group approach to the critical behaviour of random spin models, *Physical Review Letters* **33**, 1540-1543 (1974).
18. Lubensky, T.C., Critical properties of random spin models from the ϵ -expansion, *Physical Review B* **11**, 3573-3580 (1975).
19. Lubensky, T.C., and Rubin, M.H., Critical phenomena in semi-infinite systems I: ϵ -expansion for positive extrapolation length, *Physical Review B* **11**, 4533-4546 (1975).
20. Harris, A.B., Lubensky, T.C., Holcomb, W.K., and Dasgupta, C., Renormalization group approach to percolation problems, *Physical Review Letters* **35**, 327-330 (1975).
21. Lubensky, T.C., and Rubin, M.H., Critical phenomena in semi-infinite systems II: mean-field theory, *Physical Review B* **12**, 3885-3901 (1975).
22. Harris, A.B., Lubensky, T.C., and Chen, J.-H., Critical properties of spin glasses, *Physical Review Letters* **36**, 415-418 (1976).
23. DeMoura, M.A., Lubensky, T.C., Imry, Y., and Aharony, A., Coupling to anisotropic elastic media: magnetic and liquid-crystal phase transitions, *Physical Review B* **13**, 2176-2185 (1976).
24. Priest, R.G., and Lubensky, T.C., Critical properties of two tensor models with application to the percolation problem, *Physical Review B* **13**, 4159-4171 (1976); erratum, *Physical Review B* **14**, 5125 (1976).
25. Chen, J.-H., and Lubensky, T.C., Landau-Ginzburg mean-field theory for the nematic to smectic-C and nematic to smectic-A phase transitions, *Physical Review A* **14**, 1202-1207 (1976).
26. Meyer, R.B., and Lubensky, T.C., Mean-field theory of the nematic-smectic-A phase change in liquid crystals, *Physical Review A* **14**, 2307-2320 (1976).
27. Lubensky, T.C., Scaling theory of phase transitions in diluted systems near the percolation threshold, *Physical Review B* **15**, 311-314 (1977).
28. Chen, J.-H., and Lubensky, T.C., Mean field and ϵ -expansion study of spin glasses, *Physical Review B* **16**, 2106-2114 (1977).
29. Harris, A.B., and Lubensky, T.C., Spin-glass and related orderings in quenched random-spin systems, *Physical Review B* **16**, 2141-2147 (1977).
30. Lubensky, T.C., and Chen, J.-C., Anisotropic critical properties of the de Gennes model for the nematic to smectic-A phase transition, *Physical Review B* **17**, 366-376 (1978).
31. Dasgupta, C., Harris, A.B., and Lubensky, T.C., Renormalization-group treatment of the random resistor network, $6-\epsilon$ dimensions, *Physical Review B* **17**, 1375-1382 (1978).
32. Chen, J.-C., Lubensky, T.C., and Nelson, D.R., Crossover near fluctuation-induced first-order phase transitions in superconductors, *Physical Review B* **17**, 4274-4286 (1978).

33. Lubensky, T.C., Critical exponents for the zero-state Potts model in $2 + \epsilon$ dimensions, *Physics Letters A* **67A**, 169-170 (1978).
34. Lubensky, T.C., and Isaacson, J., Field theory for the statistics of branched polymers gelation and vulcanization, *Physical Review Letters* **41**, 829-832 (1978)
35. Lubensky, T.C., Dasgupta, C., and Chaves, C.M., Statistics of trees and branched polymers from a generalized Hilhorst model, *Journal of Physics A* **11**, 2219-2236 (1978).
36. Alexander, S., and Lubensky, T.C., Textural singularities and frustration in random anisotropy and random field models, *Physical Review Letters* **42**, 125-129 (1979).
37. Hossain, K.A., Swift, J., Chen, J.-H., and Lubensky, T.C., Dynamics near the nematic-smectic-A and nematic-smectic-C phase transitions in liquid crystals, *Physical Review B* **19**, 432-440 (1979).
38. Lubensky, T.C., and Isaacson, J. Statistics of lattice animals and dilute branched polymers, *Physical Review A* **20**, 2130-2146 (1979).
39. Coniglio, A., and Lubensky, T.C., ϵ -expansion for correlated percolation: applications to gels, *Journal of Physics A* **13**, 1783-1789 (1980).
40. Harris, A.B., and Lubensky, T.C., Mean field theory and ϵ -expansion for Anderson localization, *Solid State Communications* **34**, 343-346 (1980).
41. Houghton, A., and Lubensky, T.C., The metastable Ising magnet in a negative field, *Physics Letters A* **77A**, 479-480 (1980).
42. Isaacson, J. and Lubensky, T.C., Flory exponents for generalized polymer problems, *Journal de Physique (Paris) Lettres* **44**, L469-L471 (1980).
43. Lubensky, T.C., and Isaacson, J., Field theory and polymer size distribution for branched polymers, *Journal de Physique I* **42**, 175-188 (1981).
44. Harris, A.B., and Lubensky, T.C., Connection between percolation and lattice animals, *Physical Review B* **23**, 3591-3596 (1981).
45. Harris, A.B., and Lubensky, T.C., Generalized percolation, *Physical Review B* **24**, 2656-2670 (1981).
46. Harris, A.B., and Lubensky, T.C., Mean-field theory and ϵ -expansion for Anderson localization, *Physical Review B* **23**, 2640-2673 (1981).
47. Lubensky, T.C., and McKane, A.J., Cluster size distribution above the percolation threshold, *Journal of Physics A* **14**, L157-L161 (1981).
48. Lubensky, T.C., and McKane, A.J., Anderson localization, branched polymers and the Yang-Lee edge singularity, *Journal de Physique (Paris) Lettres* **42**, L331-L334 (1981).
49. Dunn, S.G., and Lubensky, T.C., Gauge-dependent critical properties of the nematic-to-smectic-A transition in the $1/N$ -expansion, *Journal de Physique I* **42**, 1201-1230 (1981).
50. Lubensky, T.C., Dunn, S.G., and Isaacson, J., Gauge transformations and the nematic-to-smectic-A transitions, *Physical Review Letters* **47**, 1609-1612 (1981).
51. Lubensky, T.C., Isaacson, J., and Obukhov, S.P., Field theory for ARB_2 branched polymers, *Journal de Physique I* **42**, 1591-1601 (1981).
52. Lubensky, T.C., and McKane, A.J., Correlations at the nematic-to-smectic-A critical point when $v_{\parallel} = 2v_{\perp}$, *Journal de Physique (Paris) Lettres* **43**, L217-L221 (1982).
53. Day, A.R., and Lubensky, T.C., ϵ -expansion for directed animals, *Journal of Physics A* **15**, L285-L290 (1982).
54. Lubensky, T.C., and Vannimenus, J., Flory approximation for directed branched polymers and directed percolation, *Journal de Physique (Paris) Lettres* **43**, L377-L381 (1982).
55. Lubensky, T.C., Grinstein, G, and Pelcovits, R.A., Gauge transformations and anharmonic effects in smectic liquid crystals, *Physical Review B* **25**, 6022-6025 (1982).
56. Rammal, R., Lubensky, T.C., and Toulouse, G., Superconducting networks in a magnetic field, *Physical Review B* **27**, 2820-2829 (1983).
57. Rammal, R., Lubensky, T.C., and Toulouse, G., Superconducting diamagnetism near the percolation threshold, *Journal de Physique (Paris) Lettres* **44**, L65-L71 (1983).

58. Harris, A.B., and Lubensky, T.C., Field theoretic approaches to biconnectedness in percolating systems, *Journal of Physics A* **16**, L365-L373 (1983).
59. Day, A.R., Lubensky, T.C., and McKane, A.J., Dislocations and the nematic-to-smectic-A transition for arbitrary values of K_1 , *Physical Review A* **27**, 1461-1467 (1983).
60. Lowe, M., Gollub, J.P., and Lubensky, T.C., Commensurate and incommensurate structures in a nonequilibrium system, *Physical Review Letters* **51**, 786-789 (1983).
61. Lubensky, T.C., and McKane, A.J., Fields below their lower critical dimension: application to liquid crystals, *Physical Review A* **9**, 317-329 (1984).
62. Wang, J. and Lubensky, T.C., Theory of the SA_1 - SA_2 phase transition in liquid crystals, *Physical Review A* **29**, 2210-2217 (1984).
63. Lubensky, T.C., Fluctuations in random walks with random traps, *Physical Review A* **30**, 2657-2665 (1984).
64. Wang, J., and Lubensky, T.C., Correlations and x-ray scattering in polar smectic- A_1 phases, *Journal de Physique I* **45**, 1653-1661 (1984).
65. Harris, A.B., Kim, S., and Lubensky, T.C., ϵ -expansion for the conductivity of a random resistor network, *Physical Review Letters* **53**, 743-746 (1984).
66. Harris, A.B. and Lubensky, T.C., Diluted spin models near the percolation threshold, *Journal of Physics A* **17**, L609-L614 (1984).
67. Day, A.R., and Lubensky, T.C., Gauge invariant de Gennes model, *Physical Review A* **30**, 481-487 (1984).
68. Barois, P., Prost, J., and Lubensky, T.C., New critical points in frustrated smectics, *Journal de Physique I* **46**, 391-399 (1985).
69. Levine, D., Lubensky, T.C., Ostlund, S., Ramaswamy, S., Steinhardt, P.J., and Toner, J., Elasticity and dislocations in pentagonal and icosahedral quasicrystals, *Physical Review Letters* **54**, 1520-1523 (1985).
70. John, S., Lubensky, T.C., Spin glass state of a randomly diluted granular superconductor, *Physical Review Letters* **55**, 1014-1017 (1985).
71. Lubensky, T.C., Ramaswamy, S., and Toner, J., Hydrodynamics of icosahedral quasicrystals, *Physical Review B* **32**, 7444-7452 (1985).
72. Lubensky, T.C., and Wang, J., The percolation conductivity exponent to second order in $\epsilon = 6 - d$, *Physical Review B* **33**, 4998-5009 (1986).
73. Achiam, Y., Lubensky, T.C., and Marshall, E.W., Ising model on a quasiperiodic chain, *Physical Review B* **33**, 6460-6464 (1986).
74. Grinstein, G., Lubensky, T.C., and Toner, J., Defect-mediated melting and new phases in three-dimensional systems with a single soft direction, *Physical Review B* **33**, 3306-3321 (1986).
75. Lubensky, T.C., Ramaswamy, S., and Toner, J., Dislocation motion in quasicrystals and implications for macroscopic properties, *Physical Review B* **33**, 7715-7719 (1986).
76. Park, Y., Harris, A.B., and Lubensky, T.C., Noise exponents of the random resistor network, *Physical Review B* **35**, 5048-5055 (1986).
77. Lubensky, T.C., and Tremblay, A.-M.S., ϵ -expansion for transport exponents of continuum percolating systems, *Physical Review B* **34**, 3408-3417 (1986); Comment on the conductivity exponent in continuum percolation, *Physical Review B* **37**, 7894-7895 (1988).
78. John, S., and Lubensky, T.C., Phase transitions in a disordered granular superconductor near percolation, *Physical Review B* **34**, 4815-4825, (1986).
79. Lubensky, T.C., Socolar, J.E.S., Steinhardt, P.J., Bancel, P.A., and Heiney, P.A., Distortions and peak broadening in quasicrystal diffraction patterns, *Physical Review Letters* **57**, 1440-1443 (1986).
80. Socolar, J.E.S., Lubensky, T.C., and Steinhardt, P.J., Phonons, phasons and dislocations in quasicrystals, *Physical Review B* **34**, 3345-3360 (1986).
81. Harris, A.B., and Lubensky, T.C., Potts-model formulation of the random resistor network, *Physical Review B* **35**, 6987-6996 (1987).
82. Harris, A.B., and Lubensky, T.C., Randomly diluted xy and resistor networks near the percolation threshold, *Physical Review B* **35**, 6964-6986 (1987).

83. Lubensky, T.C., Mean-field theory for the biaxial nematic phase and the $NN'AC$ critical point, *Molecular Crystals & Liquid Crystals* **146**, 55-69 (1987).
84. Aronovitz, J.A., and Lubensky, T.C., ϵ -expansion for self-avoiding tethered surfaces of fractional dimension, *Europhysics Letters* **4**, 395-401 (1987).
85. Park, Y., and Lubensky, T.C., New critical point in smectic liquid crystals, *Physical Review A* **37**, 2197-2213 (1988).
86. John, S., Lubensky, T.C., and Wang, J., Diamagnetism of percolative granular superconductors and diluted Josephson arrays, *Physical Review B* **38**, 2533-2542 (1988).
87. Renn, S.R., and Lubensky, T.C., Abrikosov dislocation lattice in a model of the cholesteric-to-smectic-A transition, *Physical Review A* **38**, 2132-2147 (1988).
88. Aronovitz, J.A., and Lubensky, T.C., Fluctuations of solid surfaces, *Physical Review Letters* **60**, 2634-2637 (1988).
89. Lubensky, T.C., Ramaswamy, S., and Toner, J., Static and dynamic properties of incommensurate smectic- A_{1C} liquid crystals, *Physical Review A* **38**, 4284-4298 (1988).
90. Golubović, L., and Lubensky, T.C., Smectic elastic constants of lamellar fluid membrane phases: crumpling effects, *Physical Review A* **39**, 12110-21133 (1989).
91. Aronovitz, J., Golubović, L., and Lubensky, T.C., Fluctuations and the lower critical dimension of crystalline membranes, *Journal de Physique I* **50**, 609-631 (1989).
92. Park, Y., Lubensky, T.C., and Prost, J., A new mean-field Sm-A--Sm-A' critical point in a symmetry breaking field, *Liquid Crystals* **4**, 435-440 (1989).
93. Aronovitz, J., and Lubensky, T.C., Crossover in randomly diluted classical two-dimensional Heisenberg magnets, *Journal of Physics A* **23**, 241-248 (1990).
94. Golubović, L., and Lubensky, T.C., Steric entropy and phase equilibria in microemulsions, *Europhysics Letters* **10**, 513-518 (1989).
95. Golubović, L., and Lubensky, T.C., Thermal fluctuations and phase equilibrium in microemulsions, *Physical Review E* **41**, 4343-4366 (1990).
96. Harris, A.B., Lubensky, T.C., and Mele, E.J., Flux phases in tight-binding models, *Physical Review B* **40**, 2631-2634 (1989).
97. Golubovic, L., and Lubensky, T.C., Nonlinear elasticity of amorphous solids, *Physical Review Letters* **63**, 1082-1085, (1989).
98. Lubensky, T.C., Prost, J., and Ramaswamy, S., Crumpling and second sound in lyotropic lamellar phases, *Journal de Physique I* **51**, 993-943 (1990).
99. Lubensky, T.C., and Renn, S.R., Twist-grain-boundary phases near the nematic-smectic-A-smectic-C point in liquid crystals, *Physical Review A* **41**, 4392-4401 (1990).
100. Morse, D.C., and Lubensky, T.C., Incommensurate flux phases on a square lattice, *Physical Review B* **42**, 7994-8007 (1990).
101. Morse, D.C., and Lubensky, T.C., Instabilities of the Fermi-liquid and staggered flux phases in the large- N t - J model, *Physical Review B* **43**, 10436-10444 (1991).
102. Renn, S.R., and Lubensky, T.C., Existence of a Sm-C grain boundary phase at the chiral NAC point, *Molecular Crystals & Liquid Crystals* **209**, 349-355 (1991).
103. Golubović, L., and Lubensky, T.C., Entropic elasticity of lamellar tethered membrane phases, *Physical Review A* **43**, 6793-6802 (1991).
104. Lubensky, T.C., Tokihiro, T., and Renn, S.R., Polymers in a chiral nematic liquid crystal: model for twist-grain-boundary phases, *Physical Review A* **43**, 5449-5462 (1991).
105. Lubensky, T.C., Tokihiro, T., and Renn, S.R., Quasicrystallinity in twist-grain-boundary phases, *Physical Review Letters* **67**, 89-92 (1991).
106. MacKintosh, F.C., and Lubensky, T.C., Orientational order, topology, and vesicle shapes, *Physical Review Letters* **67**, 1169-1172 (1991).
107. Morse, D.C., Lubensky, T.C., and Grest, G.S., Quenched disorder in tethered membranes, *Physical Review E* **45**, 2151-2154 (1991).

108. Lubensky, T.C., and Prost, J. Orientational order and vesicle shape, *Journal de Physique II* **23**, 371-382 (1992).
109. Morse, D.C., and Lubensky, T.C., Curvature disorder in tethered membranes: a new flat phase at $T = 0$, *Physical Review A* **46**, 1751-1768 (1992).
110. Park, J., Lubensky, T.C., and MacKintosh, F.C., n -atic order and continuous shapes changes of deformable surfaces of genus zero, *Europhysics Letters* **20**, 279-284 (1992).
111. Morse, D.C., Petsche, I.B., Grest, G.S., and Lubensky, T.C., Disorder in polymerized fluid membranes, *Physical Review A* **46**, 6745-6747 (1992).
112. Morse, D.C., and Lubensky, T.C., 2D crystalline order and defects in a stack of membranes, *Journal de Physique II* **3**, 531-546 (1993).
113. Ramaswamy, S., Prost, J., Cai, W., and Lubensky, T.C., Dynamics of lyotropic lamellar phases, *Europhysics Letters* **23**, 271-276 (1993).
114. Lubensky, T.C., and MacKintosh, F.C., Theory of the “ripple” phase of lipid bilayers, *Physical Review Letters* **71**, 1565-1568 (1993).
115. Pettey, D., and Lubensky, T.C., Star defects on flat and spherical surfaces, *Journal de Physique II* **3**, 1571-1579 (1993).
116. Kamien, R.D., and Lubensky, T.C., Twisted line liquids, *Journal de Physique I* **3**, 2131-2138 (1993).
117. Cai, W., and Lubensky, T.C., Covariant hydrodynamics of fluid membranes, *Physical Review Letters* **73**, 1186-1189 (1994).
118. Cai, W., Lubensky, T.C., Nelson, P., and Powers, T., Measure factors, tension, and correlations of fluid membranes, *Journal de Physique II* **4**, 931 (1994).
119. Ramaswamy, S., Prost, J., and Lubensky, T.C., Nonlinear effects of membrane fluctuations in the dilute lamellar phase, *Europhysics Letters* **27**, 285-290 (1994).
120. Chen, C.-M., Lubensky, T.C., and MacKintosh, F.C., Phase transitions and modulated phases in lipid bilayers, *Physical Review E* **51**, 504-513 (1995).
121. Sachidanandam, R., Lubensky, T.C., and Harris, A.B., Phenomenological dynamics of C_{70} , *Physical Review B* **51**, 12380-12397 (1995).
122. Lubensky, T.C., Terentjev, E.M., and Warner, M. Layer-network coupling in smectic elastomers, *Journal de Physique II* **4**, 1457-1459 (1994).
123. Terentjev, E.M., Warner, M., and Lubensky, T.C., Fluctuations and long-range order in smectic elastomers, *Europhysics Letters* **30**, 343-348 (1995).
124. Cai, W., and Lubensky, T.C., Hydrodynamics and dynamics fluctuations of fluid membranes, *Physical Review E* **52**, 4251-4266 (1995).
125. Lubensky, T.C., and Stark, H., Theory of a critical point in the blue-phase-III-isotropic phase diagram, *Physical Review E* **53**, 714-720 (1996).
126. Park, J.-M., and Lubensky, T.C., Topological defects on fluctuating surfaces: general properties and the Kosterlitz-Thouless transition, *Physical Review E* **53**, 2648-2664 (1996).
127. Park, J.-M., and Lubensky, T.C., Sine-Gordon field theory for the Kosterlitz-Thouless transitions on fluctuating membranes, *Physical Review E* **53**, 2665-2669 (1996).
128. Hatwalne, Y., and Lubensky, T.C., Covariant elasticity and dislocations in smectic- C liquid crystals, *Physical Review E* **52**, 6240-6249 (1995).
129. Park, J.M., and Lubensky, T.C., Disclination asymmetry in deformable hexatic membranes and the Kosterlitz-Thouless transitions, *Journal de Physique I* **6**, 493-502 (1996).
130. Stark, H., and Lubensky, T.C., Multiple scattering in nematic liquid crystals, *Physical Review Letters* **77**, 2229-2232 (1996).
131. Park, J.M., and Lubensky, T.C., Interactions between membrane inclusions on fluctuating membranes, *Journal de Physique I* **6**, 1217-1235 (1996).
132. Kamien, R.D., and Lubensky, T.C., Chiral lyotropic liquid crystals: TGB phases and helicoidal structures, *Journal de Physique II* **7**, 157-163 (1997).
133. Stark, H., and Lubensky, T.C., Multiple scattering in anisotropic random media, *Physical Review E*

- 55**, 514-533 (1997).
134. Stark, H., Kao, M.H., Jester, K.A., Lubensky, T.C., Yodh, A.G., and Collings, P.J., Light diffusion and diffusing-wave spectroscopy in nematic liquid crystals, *Journal of the Optical Society of America A* **14**, 156-178 (1997).
 135. Harris, A.B., Kamien, R.D., and Lubensky, T.C., Microscopic origin of cholesteric pitch, *Physical Review Letters* **78**, 1476-1479 (1997).
 136. Poulin, P., Stark, H., Lubensky, T.C., and Weitz, D., Novel colloidal interactions in anisotropic fluids, *Science* **275**, 1770 (1997).
 137. Yan, C., and Lubensky, T.C., Chiral discotic columnar phases in liquid crystals, *Journal de Physique II* **7**, 1023-1034 (1997).
 138. Kamien, R.D., Lubensky, T.C., Nelson, P., O'Hern, C.S., Direct determination of DNA twist-stretch coupling, *Europhysics Letters* **38**, 237-242 (1997).
 139. O'Hern, C.S., Kamien, R.D., Lubensky, T.C., and Nelson, P., Elasticity theory of a twisted stack of plates, *European Physics Journal B* **1**, 95-102 (1998).
 140. Lubensky, T.C., Pettey, D., Currier, N., and Stark, H., Topological defects and interactions in nematic emulsions, *Physical Review E* **57**, 610-625 (1998).
 141. O'Hern, C.S., and Lubensky, T.C., Sliding columnar phase of DNA-lipid complexes *Physical Review Letters* **80**, 4345-4348 (1998).
 142. Pettey, D., Lubensky, T.C., and Link, D.R., topological inclusions in 2D smectic-C films, *Liquid Crystals* **25**, 579-587 (1998).
 143. Zápotocký, M., Ramos, L., Poulin, P., Lubensky, T.C., and Weitz, D.A., Particle-stabilized defect gel in cholesteric liquid crystals, *Science* **283**, 209-212 (1999).
 144. O'Hern, C.S., and Lubensky, T.C., Nonlinear elasticity of the sliding columnar phase, *Physical Review E* **58**, 5948-5965 (1998).
 145. Verma, R., Crocker, J.C., Lubensky, T.C., and Yodh, A.G., Entropic colloidal interactions in concentrated DNA solutions, *Physical Review Letters* **81**, 4004-4007 (1998).
 146. Kamien, R.D., and Lubensky, T.C., Minimal surfaces, screw dislocations, and twist grain boundaries, *Physical Review Letters* **82**, 2892-2895 (1999).
 147. Pettey, D., and Lubensky, T.C., Stability of texture and shape of circular domains of Langmuir monolayers, *Physical Review E* **59**, 1834-1845 (1999).
 148. Issaenko, S.A., Harris, A.B., and Lubensky, T.C., Quantum theory of chiral interactions in cholesteric liquid crystals, *Physical Review E* **60**, 578-597 (1999).
 149. Harris, A.B., Kamien, R.D., and Lubensky, T.C., Molecular chirality and chiral parameters, *Rev. Mod. Phys* **71**, 1745-57 (1999).
 150. Verma, R., Crocker, J.C., Lubensky, T.C., and Yodh, A.G., Attractions between hard colloidal spheres in semi-flexible polymer solutions, submitted to *Macromolecules* **33**, 177-186 (1999).
 151. Aranda-Espinoza, H., Chen, Y., Dan, N., Lubensky, T.C., Nelson, P., Ramos, L., and Weitz, D.A., Self-limiting, two-dimensional colloidal aggregates formed on bilayer vesicles, *Science* **285**, 394-397 (1999).
 152. Ramos, L., Zápotocký, M., Poulin, P., Lubensky, T.C., and Weitz, D., Dispersions in cholesteric liquid crystals, *Physics Rev. E* **66**, 037111/1-10(2002).
 153. O'Hern, C.S. Lubensky, T.C., and Toner, J., Sliding phases in xy-models, crystals, and cationic lipid-DNA complexes, *Physical Review Letters* **83**, 2745-2748 (1999).
 154. Ramos, L., Lubensky, T.C., Dan, N., Nelson, P., and Weitz, D.A., Surfactant-mediated two-dimensional crystallization of colloidal crystals, *Science* **26** 2325 (1999).
 155. Emery, V.J., Fradkin, F., Kivelson, S.A., and Lubensky, T.C., Quantum theory of the smectic metal state in stripe phases, *Phys. Rev. Lett.* **85**, 2160-2163 (2000).
 156. Golubović, L., Lubensky, T.C., and O'Hern, C.S., Structural Properties of the Sliding Columnar Phase in Layered Liquid Crystalline Systems, *Physical Review E* **62**, 1069-1094 (2000).
 157. Lin, Keng-hui, Crocker, John C., Prasad, Vikram, Schofield, Andrew, Weitz, D.A., Lubensky, T.C.,

- and Yodh, A.G., Entropically Driven Crystallization on Patterned Surfaces, *Phys. Rev. Lett.* **85**, 1770-73 (2000).
158. Levine, Alex, and Lubensky, T.C., One-and two-particle microrheology, *Phys. Rev. Lett.* **85**, 1774-77 (2000).
159. Losert, W., Bocquet, L., Lubensky, T.C., and Gollub, J.P., Particle dynamics in sheared granular matter, *Phys. Rev. Lett.* **85**, 1428-31 (2000).
161. Mukhopadhyay, Ranjan, Kane, C.L., and Lubensky, T.C., A Crossed Sliding Luttinger liquid Phase, *Phys. Rev. B* **63**, 081103R/1-4 (2001).
162. Radzihovsky, Leo, and Lubensky, T.C., Fluctuation-driven first-order isotropic-to-tetrahedral phase transition, *Europhys. Lett.* **54** 206-12 (2001).
163. Levine, Alex J., and Lubensky, T.C., The response function of a sphere in a viscoelastic two-fluid medium, *Phys. Rev. E* **63**, 041510/1-12 (2001).
164. Bocquet, L., Losert, W., Schalk, D., Lubensky, T.C., and Gollub, J.P., Granular Shear flow dynamics and forces, experiment and continuum theory, *Phys. Rev. E* **65** 011307/1-19 (2001).
165. Levine, Alex J., and Lubensky, T.C., Two-point microrheology and the electrostatic analogy, *Phys. Rev. E* **65**, 011501/1-13 (2002) [cond-mat/0104132]
166. Bluestein, Igor, Kamien, Randall. D., and Lubensky, T.C., Dislocation Geometry and the TGB-A Phase: Linear Theory, *Phys. Rev. E.* **63** 061702/1-11 (2001).
167. Mukhopadhyay, Ranjan, Kane, C.L., and Lubensky, T.C., Sliding Luttinger liquid phases, *Phys. Rev. B* **64**, 045120/1-18 (2001).
168. Lacoste, D., and Lubensky, T.C., Phase transitions is a ferrofluid at magnetic-field-induced microphase separation, *Phys. Rev. E* **64**, 041506/1-8 (2001).
169. Mach, P., Wilzius, P., Megens, M., Weitz, D.A., Lin, Keng-hui, Lubensky, T.C., and Yodh, A.G., Switchable Bragg Diffraction from Liquid Crystal in Colloid-Templated Structures, *Europhys. Lett.* **58**, 679-85 (2002).
170. Mach, P., Wiltzius, P., Megens, M., Weitz, D.A., Lin, Keng-hui, Lubensky, T.C., and Yodh, A.G., Electro-Optic Response and Switchable Bragg Diffraction for Liquid Crystal in Colloid-Templated Materials, *Phys. Rev. E* **65**, 031720/1-3 (2002).
171. Kane, C., Mukhopadhyay, Ranjan, and Lubensky, T.C., The fractional Quantum Hall effect in an array of quantum wires, *Phys. Rev. Lett.* **88**, 036401/1-4 (2002).
172. Lacoste, Collings, P.J., and Lubensky, T.C., Effective index of refraction, optical rotation, and circular dichroism in the cholesteric blue phase III, *Phys. Rev. E* **65**, 031717/1-11 (2002).
173. Lubensky, T.C., Mukhopadhyay, Ranjan, Radzihovsky, Leo, and Xing, Xiangjun, Symmetries and Elasticity of Nematic Gels, *Phys. Rev. E* **66**, 011702/1-22(2002)[cond-mat/0112095]
174. Bocquet, Lyderic, Erami, Jalal, and Lubensky, T.C., A Hydrodynamic model for a dynamical jammed-to-flowing transition in gravity driven granular media, *Phys. Rev. Lett.* **89**, 184301/1-4 (2002) (2002) [cond-mat/0112072]
175. Lacoste, D., Lau, A.W.C., and Lubensky, T.C., Phase Transitions in Lyotropic Nematic Gels, *Euro. Phys. J. E* **8**, 403-411 (2002) [cond-mat/0202262].
176. Lubensky, T.C., and Radzihovsky, Leo, Theory of Banana Liquid Crystal Phases and Phase Transitions, *Phys. Rev. E.* **66**, 031704/1-27 (2002) [cond-mat/025171]
177. Islam, M.F., Lacoste, David, Lubensky, T.C., and Yodh, Arjun, Field Induced Structures in Miscible Ferrofluid Suspensions with and without Latex Spheres, *Phys. Rev. E* **67**, 021402/1-8 (2003)
178. Stenull, Olaf and Lubensky, T.C., Anomalous Elasticity of Nematic Elastomers, *Europhys. Lett.* **61**, 776-782 (2003).
179. Chen, D. T., Weeks, E. R., Crocker, J. C., Islam, M. F., Verma, R., Gruber, J., Levine, A. J., Lubensky, T. C. and Yodh, A. G., Rheological microscopy: Local mechanical properties from microrheology, *Phys. Rev. Lett.* **90**, 108301/1-4 (2003).
180. Stark, H. and Lubensky, T. C., Poisson-bracket approach to the dynamics of nematic liquid crystals, *Phys. Rev. E* **67**, 061709/1-11 (2003).

181. Xing, X. J., Mukhopadhyay, R., Lubensky, T. C. and Radzihovsky, L., Nematic elastomer membranes, *Phys. Rev. E*, 021108/1-17, **68** (2003).
182. Islam, M.F. , Alsayed, A.M., Dogic, Z. , Zhang, J. , Lubensky, T.C. , and Yodh, A.G., Nematic Nanotube Gels, *Phys. Rev. Lett.* **92**, 088303/1-4 (2003).
183. Lau, A. W. C., Hoffman, B. D., Davies, A., Crocker, J. C. and Lubensky, T. C., Microrheology, stress fluctuations, and active behavior of living cells, *Phys. Rev. Lett.* **91**, 198101/1-4 (2003).
184. Olaf Stenull and T.C. Lubensky, Anomalous elasticity of nematic and critically soft elastomers, *Phys. Rev. E* **69**, 021807/1-11 (2004)
185. Arindam Kundagrami and T.C. Lubensky, Structure of TGB_C Phases, *Phys. Rev. E* **68**, 060703 (2004).
186. Dogic, Z., Zhang, J., Lau, A.W.C., Aranda-Espinoza, H., Dalhaimer, P., Discher, D.E., Janmey, P.A., Kamien, Randall D., Lubensky, T.C., Yodh, A.G., Elongation and fluctuations of semi-flexible polymers in a nematic solvent, *Phys. Rev. Lett.* **92**, 125503/1-4 (2004), error *Phys. Rev. Lett.* **93**, 219902 (2004)
187. Stenull, Olaf and Lubensky, T.C., Dynamics of Nematic Elastomers, *Phys. Rev. E* **65**, 0518091/1-13 (2004).
188. Stenull, Olaf and Lubensky, T.C., Commentary on "Mechanical properties of mono-domain side chain nematic elastomers" by P. Martinoty et al., *European Phys. J.* **14**, 333-337 (2004).
189. Stenull, Olaf and Lubensky, T.C., Phase Transitions and Soft Elasticity of Smectic Elastomers, *Phys. Rev. Lett.* **94**, 081304 (2005).
190. Storm, Cornelis, Jennifer J. Pastore, Jennifer J., Fred C. MacKintosh, Fred C., T.C. Lubensky, T.C., and Paul A. Janmey, Paul A., Nonlinear Elasticity in Biological Gels, *Nature* **435**, 191-194 (2005).
191. Tsai, J.-C., Ye, Fangfu , Rodriguez, Juan , Gollub, J.P., and Lubensky, T.C., A Chiral Granular Gas, *Phys. Rev. Lett.* **94**, 214301 (2005).
192. Islam, M. F., Nobili, M., Ye, Fangfu , Lubensky, T. C. and Yodh, A. G. , Cracks and Topological Defects in Lyotropic Nematic Nanotube Gels, *Phys. Rev. Lett.* **95**, 148301/1-4 (2005)
193. Stark, H. and Lubensky, T.C., Poisson bracket approach to the dynamics of nematic liquid crystals: The role of spin angular momentum, *Phys. Rev. E*, **72**, 051714/1-9 (2005).
194. Didonna, B.A. and Lubensky, T.C., Nonaffine correlations in random elastic media, *Phys. Rev. E* **72**, 066619/1-23 (2005).
195. Stenull, Olaf and Lubensky, T.C., Dynamics, dynamic soft elasticity, and rheology of smectic-C elastomers, *Phys. Rev. E* **73**, 030701/1-4 (2006).
196. Han, Y., Alsayed, A. M., Nobili, M., Zhang, J., Lubensky, T. C., and Yodh, A. G., Brownian Motion of an Ellipsoid, *Science* **314**, 626-630 (2006)
197. Stenull, O. and Lubensky, T.C., Soft Elasticity in biaxial smectic and smectic-C elastomers, *Phys. Rev. E* **74**, 051709/1-24 (2006)
198. Stenull, O. and Lubensky, T.C., Dynamics, dynamic soft elasticity, and rheology of smectic-C liquid crystals, *Phys. Rev. E* **75**, 031711/1-18 (2007).
199. Dalhaimer, Paul, Discher, Dennis E., and Tom C. Lubensky, Crosslinked actin networks show liquid crystal elastomer behaviour, including soft-mode elasticity, *Nature Physics* **3** 354-360 (2007)
200. Ye, Fangfu; Mukhopadhyay, Ranjan; Stenull, Olaf ; and Lubensky, T. C., Semi-soft Nematic Elastomers and Nematics in Crossed Electric and Magnetic Fields, *Phys. Rev. Lett.* **98**, 147801/1-4 (2007)
201. Lau, A.W.C. and Lubensky, T.C., State-dependent diffusion: thermodynamic consistency and its path integral formulation, *Phys. Rev. E* **76**, 011123/1-17 (2007)
202. Stenull, O. and Lubensky, T.C., Unconventional elasticity in smectic-A elastomers, *Phys. Rev. E* **76**, 011706/1-11 (2007)
203. Chen, D.T.N., Lau, A.W.C., Hough, L.A., Islam, M.F., Goulian, M., Lubensky, T.C., and Yodh, A.G., Fluctuations and Rheology in Active Bacterial Suspensions, *Phys. Rev. Lett.* **99**, 148302 (2007)
204. Adams, J.M., Warner, Mark, Stenull, Olaf, Lubensky, T.C., Smectic-A elastomers with weak director anchoring, *Phys. Rev. E* **78**, 011703 (2008).

205. Stenull, O., Lubensky, T.C., Adams, J.M., and Warner, M, Smectic-C tilt under shear in smectic-A elastomers, *Phys. Rev. E* **78**, 021705 (2008).
206. Yilong Han, Yair Shokef, Ahmed H. Alsayed, Peter Yunker, Tom C. Lubensky, and Arjun Yodh, Geometric Frustration in Buckled Colloidal Monolayers, *Nature* **456**, 07595 (2008).
207. White, S.I., DiDonna, B.A., Mu, M.F., Lubensky, T.C., Winey, K.I., Simulations and electrical conductivity of percolated networks of finite rods with various degrees of axial alignment, *Phys. Rev. B* **79**, 024301 (2008).
208. Yair Shokev and Tom C. Lubensky, Stripes, Zizags, and Slow Dynamics in Buckled Hard Spheres, *Phys. Rev. Lett.* **102**, 048303 (2009).
209. Daniels, L.J., Park, Y., Lubensky, T.C., and Durian D.J., Dynamics of gas-fluidized granular rods, *Phys. Rev. E* **79**, 041301 (2009).
210. Ye, Fangfu and Lubensky, T.C., Phase Diagrams of Semi-soft Nematic Elastomers, *Journal of Physical Chemistry B* **113**, 3853 (2009).
211. Lau, A.W.C. and Lubensky, T.C., Fluctuating hydrodynamics and microrheology of a dilute suspension of swimming bacteria, *Phys. Rev. E* **80**, 011917 (2009).
212. Souslov, A., Liu, A.J., and Lubensky, T.C., Elasticity and Response in Nearly Isostatic Periodic Lattices, *Phys. Rev. Lett.* **103**, 205503 (2009)
213. Mao, X.M., Xu, N., and Lubensky, T.C., Soft Modes and Elasticity of Nearly Isostatic Lattices: Randomness and Dissipation, *Phys. Rev. Lett.* **104**, 085504 (2010).
214. Lubensky, T.C. and Ye, Fangfu, Elastic response and Ward identities in stressed nematic elastomers, *Phys. Rev. E* **82**, 011704 (2010).
215. Nordstrom, K. N., Verneuil, E., Ellenbroek, W. G., Lubensky, T. C., Gollub, J. P. Durian, D. J., Centrifugal compression of soft particle packings: Theory and experiment, *Phys. Rev. E* **82**, 041403 (2010).
216. Mao, Xiaoming and Lubensky, T. C., Coherent potential approximation of random nearly isostatic kagome lattice, *Phys. Rev. E* **83**, 011111 (2011).
217. Huisman, E. M. and Lubensky, T. C., Internal Stresses, Normal Modes, and Nonaffinity in Three-Dimensional Biopolymer Networks, *Phys. Rev. Lett.* **106**, 088301 (2011).
218. Basu, Anindita, Wen, Qi, Mao, Xiaoming, Lubensky, T. C., Janmey, Paul A., and Yodh, A. G., Non-affine displacements in flexible polymer networks, *Macromolecules* **44**, 1671-1679 (2011).
219. L. Radzihovsky and T. C. Lubensky, "Nonlinear smectic elasticity of helical state in cholesteric liquid crystals and helimagnets," *Physical Review E* **83**, 051701 (2011).
220. Yair Shokef, Anton Souslov, and Tom C. Lubensky, Order-by-disorder in the antiferromagnetic Ising model on an elastic triangular lattice, *PNAS* **108**, 11804-11809 (2011).
221. Chase P. Broedersz, Xiaoming Mao, T.C. Lubensky, and F.C. MacKintosh, Criticality and isostaticity in fiber networks, *Nature Physics* **7**, 983-988 (2011)
222. Peter J. Yunker, Matthew Gratale, Matthew A. Lohr, Still Tim, T. C. Lubensky, and A. G. Yodh, "Influence of particle shape on bending rigidity of colloidal monolayer membranes and particle deposition during droplet evaporation in confined geometries," *Physical Review Letters* ???, ??? (2012).

Conference Proceedings

1. Lubensky, T.C., and Harris, A.B., Effect of randomness on critical behavior of spin models, *American Institute of Physics Conference Proceedings* **24**, 311-312 (1975).

2. Lubensky, T.C., Phase transitions in strongly random systems: a review, *Statistical Physics* **13**, 215-223 (1978).
3. Lubensky, T.C., Critical properties of the Anderson mobility edge: results from field theory, in *Disordered Systems and Localization*, Castellani, C., DiCastro, C., and Peliti, L. eds. (Springer Verlag, New York, 1981), 197.
4. Lubensky, T.C., and Ingersent, K., Patterns in systems with competing incommensurate lengths, in *Defects and Microstructures in Nonequilibrium Systems*, (NATO Advanced Study Series), Walgraef, D., ed., Martin Nijhoff Publishers, Dordrecht, 1987).
5. Lubensky, T.C., Phasons in quasicrystals and incommensurate liquid crystals, in *Incommensurate Crystals, Liquid Crystals, and Quasi Crystals*, (NATO Advanced Study Series), Scott, J.F., and Clark, N.A., eds. (Plenum Press, New York, 1987).
6. Lubensky, T.C., TGB phases: Abrikosov vortex lattices in liquid crystals, *Physica A* **220**, 99-112 (1995).
7. Lubensky, T.C., Kamien, R.D., and Stark, H., Chiral fluctuations and structures, *Molecular Crystals and Liquid Crystals* **288**, 15 (1996).
8. Kamien, R.D., Lubensky, T.C., Nelson, P., O'Hern, C., Twist-stretch elasticity of DNA, *Materials Research Society Proceedings, Statistical Mechanics in Physics and Biology* **473**, 43 (1997).
9. Lubensky, T.C., Harris, A.B., Kamien, R.D., and Yan, G., Chirality in Liquid Crystals: from Microscopic origins to macroscopic structure, *Ferroelectrics* **212**, 1-20 (1998).
10. Lubensky, T.C., and O'Hern, C.S., The sliding columnar phase: a new phase of matter in DNA-lipid complexes, *8th Tohwa University International Symposium on Slow Dynamics in Complex Systems, AIP Conference Proceedings* **469**, (1999).
11. Lubensky, T.C., Liquid Crystal Physics at the Millennium, *Mol. Cryst. And Liq. Cryst.* **364**, 1-13 (2001).
12. Lubensky, T.C., Almost Fluids: Nematic Elastomers and Granular Material under Shear, *J. Phys. A.* **15**, S47-S55 (2003).
13. Lubensky, T.C., Sliding Phases: From DNA-Lipid Complexes to Smectic Metals, Proceedings of TH2002, *Ann. Henri Poincare* **4**, Suppl. 2, S683-S692 (2003).
14. T.C. Lubensky, Phenomenological Dynamics: from Navier Stokes to Chiral Granular Gases, *Pramana* **64**, 1-12 (2005)
15. Lubensky, T.C., Liquid Crystals as Inspirations for Fundamental Physics, Invited talk at ILCC2010, *Molecular Crystals and Liquid Crystals* **540**, 3-11 (2011)

Lecture Notes, Review Articles, and Book Chapters

1. Lubensky, T.C., Thermal and geometrical critical phenomena in random systems, in *La Matière Mal Condensée Les Houches 1978*, Balian, R., Maynard, R. and Toulouse, G., eds. (North Holland, NY, 1979).
2. Lubensky, T.C., The nematic-to-smectic-A transition: a theoretical overview, *Journal de Chimie Physique et de Physico-Chimie Biologique* **80**, 31-43 (1983).
3. Lubensky, T.C., and Pincus, P.A., Superpolymers, ultraweak solids and aggregates, *Physics Today* **37**, 44-50 (1984).
4. Lubensky, T.C., Symmetry, elasticity and hydrodynamics of quasicrystals, in *Quasiperiodic Structures, Aperiodic Crystals, Vol. I*, Jaric, M., ed. (Academic, Boston, 1988).
5. Lubensky, T.C., Tokihiro, T., and Renn, S.R., Chiral smectics and quasicrystals, in *Quasicrystals: the State of the Art*, DiVencenzo, D.P., and Steinhardt, P.J., eds. (World Scientific, Singapore, 1991).
6. Lubensky, T.C., Soft condensed matter physics, *Solid State Communications* **102**, 187-197 (1997).
7. Lubensky, T. C., New Banana Phases, perspectives article in *Science* **288**, 2146-47 (2000).
8. Lubensky, T.C., SmC liquid Crystals, in *Encyclopedia of Materials Science*, (Pergamon, New York, 2002).

9. Lubensky, T.C., Chiral Smectic Liquid Crystals, in *Encyclopedia of Materials Science* (Pergamon, New York, 2002).
10. T.C. Lubensky, "An Analogy between Superconductors and Smectics-A," in P.G. de Gennes' Impact on Science – Volume I: Solid State and Liquid Crystals, edited by Julian Bok, Jacques Prost, and Françoise Brochard-Wyart (World Scientific Publishing Co, Hackensack, NJ, 2009)
11. Lubensky, T.C. and Stenull, Olaf, Lagrange elasticity theory of liquid crystal elastomers, Chapter in *Cross-Linked Liquid Crystalline Systems: From Rigid Polymer Networks to Network Elastomers*, Edited by Dirk Broer, Gregory Crawford, and Slobodan Zumer (Taylor and Francis, NY, 2011).
12. T. C. Lubensky, "Symmetry and the Physical Properties of Liquid Crystals", in *Progress in LC Science and Technology, in Honor of Professor Kobayashi's 80th Birthday*, edited by Hiap Ong (World Scientific, Singapore, 2012).

Examples of professional preparation in a sentence, how to use it. 10 examples: Change in teacher candidates is gradual and often imperceptible and is impacted. Change in teacher candidates is gradual and often imperceptible and is impacted by diverse developmental events that occur during professional preparation. From the Cambridge English Corpus. Pros of Professional Tax Preparation. The Fees may be Deductible in Some Cases. It is important to be aware of the possibility that your professional tax preparation fees can be deducted on your income tax return if you satisfy certain requirements. The fee for tax preparation is regarded as a miscellaneous deduction and you can report it on the IRS Tax Form 1040 Schedule A. For example, you can deduct things like Professional preparation for practice is a complexity of knowledge, inquiry, aspirations and culture that spans a multitude of fields. Regardless of the professional field under consideration, the goal is the same "to prepare students to become practitioners in the profession. In this chapter, we focus on four main areas as a pragmatic overview to preparation for professional practice: (1) a brief history of professional preparation for practice in The Council for Exceptional Children (CEC)'s Professional Preparation Standards define the specialized expertise special educators must master for safe and effective practice. CEC released two new sets of standards for special educator preparation programs in July 2020. Read More. Improving Your Practice Improving Your Practice. The specialized professional preparation of teachers of young adolescents must be a high priority of teacher preparation programs. The Association for Middle Level Education is committed to promoting actions that will assure that all young adolescents are taught by highly qualified teachers. AMLE continues to be the leader in promoting responsive policies, practices, and programs for young adolescents and their teachers.