

## BIBLIOGRAPHY

- Anderson, F.B., and Callen, H.B. 1964. "Statistical Mechanics and Field-Induced Phase Transitions of the Heisenberg Antiferromagnet," Physical Review, 136: A1068-A1087.
- Barry, J.H. 1968. "Statistical-Mechanical Theory of Resonance Susceptibility in Heisenberg Antiferromagnetism," Physical Review, 174: 531-539.
- Bethe, H.A. 1935. "Statistical Theory of Superlattices," Proceeding of the Royal Society of London, A150: 552-575.
- Callen, H.B. 1963. "Green Function Theory of Ferromagnetism," Physical Review, 130: 890-898.
- Dyson, F.J. 1956. "General Theory of Spin-Wave Interaction," Physical Review, 102: 1217-1230.
- Fittipaldi, I.P., and Coutinho, Jr., M.D. 1974. "Spin-1/2 modified Callen decoupling procedures in the Green's-function theory of ferromagnetisms," Physical Review B, 10: 4808-4811.
- Forner, S. 1963. "High-Field Antiferromagnetic Resonance in  $\text{Cr}_2\text{O}_3$ ," Physical Review, 130: 185-197.
- Fujii, K. 1974. "Heisenberg Antiferromagnet Using the Green's Function Theory," Progress of Theoretical Physics, 51: 1283-1292.

- Ghosh, D.K. 1973. "Green's-Function Theory of an Antiferromagnet," Physical Review B, 8: 392-406.
- Herring, C., and Kittel, C. 1951. "On the Theory of Spin Waves in Ferromagnetic Media," Physical Review, 81: 869-880.
- Holstein, T., and Primakoff, H. 1940. "Field Dependence of the Intrinsic Domain Magnetization of a Ferromagnet," Physical Review, 58: 1098-1113.
- Kaplan, H. 1952. "A Spin-Wave Treatment of the Saturation Magnetization of Ferrites," Physical Review, 86: 121.
- Kaplan, T.A. 1958. "Approximate Theory of Ferrimagnetic Spin Waves," Physical Review, 109: 782-787.
- Kasteleijn, P.W., and Van Kranendonk, J. 1956. "Constant Coupling Approximation for Heisenberg Ferromagnetism," Physica, XXII: 317-337.
- Kittel, C. 1971. Introduction to Solid State Physics (4th ed.; New York: John Wiley & Sons, Inc.), Chs. 15, 16, 17, pp. 499-608.
- Kubo, R. 1952. "The Spin-Wave Theory of Antiferromagnetics," Physical Review, 87: 568-580.
- Kubo, R., and Nagamiya, T. 1969. Solid State Physics (New York: McGraw-Hill Book Co., Inc.), 419-592.
- Li, Y.Y. 1955. "Magnetic Moment Arrangements and Magneto-crystalline Deformations in Antiferromagnetic Compounds," Physical Review, 100: 627-631.

- Linos, M.E. 1967. "Sensitivity of Curie Temperature to Crystal-Field Anisotropy. I. Theory," Physical Review, 156: 534-542.
- Mattis, D.C. 1965. The Theory of Magnetism (New York: Harper & Row), Ch. 6, pp. 123-173.
- Morrish, A.H. 1965. The Physical Principles of Magnetism (New York: Harper & Row).
- Naganura, T., and Bloch, M. 1963. "Temperature Dependence of the Exchange Stiffness in Ferrimagnets," Physical Review, 132: 2528-2539.
- Neel, L. 1953. "Some New Results on Antiferromagnetism and Ferromagnetism," Review of Modern Physics, 25: 58-63.
- Peierls, R.S. 1956. "Statistical Theory of Superlattices with Unequal Concentrations of the Components," Proceeding of the Royal Society of London, A154: 207-222.
- Smart, J.S. 1956. "Application of the Bethe-Weiss Method to Ferrimagnetism," Physical Review, 101: 585-591.
- Swendsen, R.H. 1975. "Modified Callen decoupling in the Green's-function theory of Heizenberg antiferromagnets," Physical Review B, 11: 1935-1942.
- Tahir-Kheli, R., and ter Haar, D. 1962. "Use of Green Functions in the Theory of Ferromagnetism. I. General Discussion of the Spin-S Case," Physical Review, 127: 88-94.

- Tyablikov, S.V. 1967. Methods in Quantum Theory of Magnetism  
(New York: Plenum Press, Inc.), Ch. VII, pp. 205-245.
- Van Vleck, J. H. 1932. Electric and Magnetic Susceptibility  
(Oxford: Clarendon Press, Inc.), pp. 94-104.
- Weiss, P.R. 1948. "The Application of the Bethe-Peierls Method  
to Ferromagnetism," Physical Review, 74: 1493-1504.
- Yablonskii, D.A. 1973. "Quantum Theory of an Isotropic Two-  
Sublattice Ferrimagnet in Applied Magnetic Fields,"  
Soviet Physics-Solid State, 14: 2468-2474.

VITA

Name Mrs. Chonkwan Prayoonwech

Degree B.Sc. (Hons.) in Physics, April, 1973  
Chulalongkorn University  
Bangkok, Thailand

Graduate Scholarship University Development Commission  
National Education Council  
Bangkok, Thailand  
1973-1975