

CONTENTS

1. An Analytic Method in Statistical Mechanics. Busseiron Kenkyu 1 (1943) pp. 1-13. (Translation).	1
2. Statistical Theory of Linear Polymers I. Intramolecular Statistics. J. Phys. Soc. Japan 2 (1947) pp. 47-50.	10
3. Statistical Theory of Linear Polymers II. Elasticity of Vulcanized Rubber. J. Phys. Soc. Japan 2 (1947) pp. 51-56.	14
4. Statistical Theory of Linear Polymers III. Double Refraction. J. Phys. Soc. Japan 2 (1947) pp. 84-89.	20
5. Statistical Theory of Linear Polymers IV. Effects of Hinderance for Internal Rotation. J. Phys. Soc. Japan 3 (1948) pp. 119-126.	26
6. Statistical Theory of Linear Polymers V. Paraffin-like Chain. J. Phys. Soc. Japan 4 (1949) pp. 319-322.	34
7. Large Elastic Deformation of Rubber. J. Phys. Soc. Japan 3 (1948) pp. 312-317.	38
8. Interaction between Electrons and Ions in Semiconductors. I J. Phys. Soc. Japan 3 (1948) pp. 254-259.	44
9. Interaction between Electrons and Ions in Semiconductors. II J. Phys. Soc. Japan 4 (1949) pp. 322-325.	50
10. Interaction between Electrons and Ions in Semiconductors. III J. Phys. Soc. Japan 4 (1949) pp. 326-329.	54
11. Thermal Ionization of Trapped Electrons. Phys. Rev. 86 (1952) pp. 929-937.	58
12. The Spin-Wave Theory of Antiferromagnetics.	

	Phys. Rev. 87 (1952) pp. 568–580.	67
13.	A General Theory of Magnetic Resonance Absorption (with Kazuhisa Tomita). J. Phys. Soc. Japan 9 (1954) pp. 888–919.	80
14.	Note on the Stochastic Theory of Resonance Absorption. J. Phys. Soc. Japan 9 (1954) pp. 935–944.	112
15.	Application of the Method of Generating Function to Radiative and Non-Radiative Transitions of a Trapped Electron in a Crystal (with Y. Toyozawa). Prog. Theor. Phys. 13 (1955) pp. 160–182.	122
16.	Note on the Paramagnetic Susceptibility and the Gyromagnetic Ratio in Metals (with Y. Obata). J. Phys. Soc. Japan 11 (1956) pp. 547–550.	145
17.	Statistical-Mechanical Theory of Irreversible Processes. I. General Theory and Simple Applications to Magnetic and Conduction Problems. J. Phys. Soc. Japan 12 (1957) pp. 570–586.	149
18.	Statistical-Mechanical Theory of Irreversible Processes. II. Response to Thermal Disturbance (with M. Yokota and S. Nakajima). J. Phys. Soc. Japan 12 (1957) pp. 1203–1211.	166
19.	Quantum Theory of Galvanomagnetic Effect. I. Basic Considerations (with H. Hasegawa and N. Hashitsume). J. Phys. Soc. Japan 14 (1959) pp. 56–74.	175
20.	Electronic Properties of Metallic Fine Particles. I. J. Phys. Soc. Japan 17 (1962) pp. 975–986.	194
21.	Generalized Cumulant Expansion Method. J. Phys. Soc. Japan 17 (1962) pp. 1100–1120.	206
22.	Stochastic Liouville Equations. J. Math. Phys. 4 (1963) pp. 174–183.	227
23.	Band Theoretical Interpretation of Neutron Diffraction Phenomena in Ferromagnetic Metals (with T. Izuyama and D. J. Kim).	

	J. Phys. Soc. Japan 18 (1963) pp. 1025–1042.	237
24.	Wigner Representation of Quantum Operators and Its Applications to Electrons in a Magnetic Field. J. Phys. Soc. Japan 19 (1964) pp. 2127–2139.	255
25.	The Fluctuation-Dissipation Theorem and Brownian Motion. —1965 Tokyo Summer Lectures in Theoretical Physics — edited by R. Kubo (Part 1. Many-Body Theory) 1966 Syokabo (Tokyo) and Benjamin (N. Y.) pp. 1–16.	268
26.	Electronic Properties of Fine Metallic Particles. II. Plasma Resonance Absorption (with A. Kawabata). J. Phys. Soc. Japan 21 (1966) pp. 1765–1772.	284
27.	A Stochastic Model for Low Field Resonance and Relaxation (with T. Toyabe). In <i>Magnetic Resonance and Relaxation</i> . Proceedings of the XIV th Colloque Ampère, Ljubljana, Sept. 6–11 1966, North Holland Pub. 1967, pp. 810–823.	292
28.	Stochastic Theories of Randomly Modulated Systems. J. Phys. Soc. Japan 26 Suppl. (1969) pp. 1–5. Proceedings of the Intern'l Conf. Statistical Mechanics, Kyoto, 1968.	306
29.	Dynamics of the Ising Model near the Critical Point I. (with M. Suzuki). J. Phys. Soc. Japan 24 (1968) pp. 51–60.	311
30.	Interband Effects in Orbital Magnetism and Hall Conductivity (with H. Fukuyama). Proc. International Conf. on Physics of Semiconductors (1970) pp. 551–560.	321
31.	Brownian Motion of Spins (with N. Hashitsume). Prog. Theor. Phys. Supplement 46 (1970) pp. 210–220.	331
32.	Fluctuation and Relaxation of Macrovariables (with K. Matsuo and K. Kitahara). J. Stat. Phys. 9 (1973) pp. 51–96.	342

33. A Stochastic Theory of Second Order Optical Processes (with T. Takagahara and E. Hanamura).
Solid State Comm. 32 (1979) pp. 1-6. 388

List of Publications of Professor Ryogo Kubo not Included in the Selected Papers 394

List of Publications of Professor Ryogo Kubo in Japanese 400

