

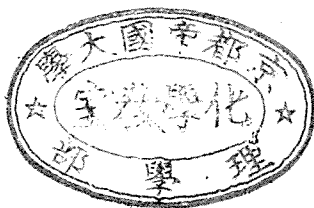
MEMOIRS
OF THE
COLLEGE OF SCIENCE

KYOTO IMPERIAL UNIVERSITY

SERIES A

VOL. XVIII

1935



KYOTO

CONTENTS OF VOLUME XVIII

	PAGE
Toshizô Matsumoto —On the Group of Zero-Sequence	1
Usaburo Yoshida and Kazuo Koyanagi —Melting of Metal-Crystals at their Boundaries, and a Theory of Recrystallization of Metals	9
Hajime Kotô —On the Crystal Structure and Crystalline Configura- tion of the Normal and Modified Si-Al Alloys	17
Tunezô Satô —An Integral Equation with a Parameter	35
Joe Ueta —Graphical Computation of Jupiter's Perturbation on Asteroids	41
Tunezô Satô —On Abel's Integral Equation	63
Zensuke Muro —Difference in the X-Ray Diffraction Patterns of some Isomers	79
Tadao Namekawa —A Study of the Minor Fluctuation of the At- mospheric Pressure (II)	83
Kiugoro Kitagawa —Sur le Dispersement et l'Écart Moyen de l'Écoulement des Eaux Souterraines III. Expériences Faites dans le Sol	129
Toschima Araki und Michinori Kurihara —Über den inneren Auf- bau der Weissen Zwerge	137
Shigeharu Nitta —A Fundamental Investigation of Motion of a Vertically Constrained Gyroscope	155
Bunsuke Takei —Net Density of Starch	169
Tadao Namekawa —A Study of the Minor Fluctuation of the At- mospheric Pressure (III)	173
Takaharu Nomitsu —A Theory of Tunamis and Seiches produced by Wind and Barometric Gradient	201
Yoshiaki Matsunaga —Net Density and X-ray Investigation of Carbon	215
Takaharu Nomitsu —Surface Fluctuations of Lake Biwa caused by the Muroto Typhoon	221
Tadao Namekawa —A Theory of the Annual Variation of Tem- perature of Ocean or Lake	239
Takaharu Nomitsu and Katakusu Habu —Proper Oscillations of	

	PAGE
the Sea of Continental Shelf	247
Kenzô Sassa —Volcanic Micro-Tremors and Eruption-Earthquakes (Part I of the Geophysical Studies on the Volcano Aso)	255
Yoshikazu Toyohara —A Study on the Coastal Ground Water at Yumigahama, Tottori *(No. 5)	295
Michinori Kurihara —Über die Turbulenz in der Sonnenatmos- phäre *(No. 6)	295
Kenzô Tanaka and Hshi Yu Tien (田時雨)—Transformation from Vitreous to Metallic Selenium *(No. 6)	309
Chullchai Park (朴哲在)—A Study of the Carbonization of Ramie Cellulose by means of X-Rays and the "Net Density Method"	311
Masami Ichinose —On the Arrangement of Micro-Crystals of Silica in the Onyx	315
Tadao Namekawa —A Study of the Minor Fluctuation of the At- mospheric Pressure (IV)	317
Keisaku Mitsui —Catalytic Reduction of Aromatic Carboxylic Acid Esters under High Pressure and Temperature	329

* N. B. Pp. 295-309 are duplicated owing to misnumbering. Hence, for this section only, Nos. of parts are prefixed to numbers of pages in the index.

INDEX OF AUTHORS TO VOLUME XVIII

	PAGE
Araki, T. und Kurihara, M.—Über den inneren Aufbau der Weissen Zwerge	137
Habu, K.—(see Nomitsu, T. and Habu, K.)	247
Ichinose, M.—On the Arrangement of Micro-Crystals of Silica in the Onyx	315
Kitagawa, K.—Sur le Dispersement et l'Écart Moyen de l'Écoulement des Eaux Souter- raines III. Expériences Faites dans le Sol	129
Kotô, H.—On the Crystal Structure and Crystalline Configuration of the Normal and Modified Si-Al Alloys	17
Koyanagi, K.—(see Yoshida, U. and Koyanagi, K.)	9
Kurihara, M.—(see Araki, T. und Kurihara, M.)	137
Kurihara, M.—Über die Turbulenz in der Sonnenatmosphäre	* (No. 6) 295
Matsumoto, T.—On the Group of Zero-Sequence	I
Matsunaga, Y.—Net Density and X-ray Investigation of Carbon	215
Mitsui, K.—Catalytic Reduction of Aromatic Carboxylic Acid Esters under High Pres- sure and Temperature	329
Muro, Z.—Difference in the X-Ray Diffraction Patterns of some Isomers	79
Namekawa, T.—A Study of the Minor Fluctuation of the Atmospheric Pressure (II)	83
Namekawa, T.—A Study of the Minor Fluctuation of the Atmospheric Pressure (III)	173
Namekawa, T.—A Theory of the Annual Variation of Temperature of Ocean or Lake	239
Namekawa, T.—A Study of the Minor Fluctuation of the Atmospheric Pressure (IV)	317
Nitta, S.—A Fundamental Investigation of a Vertically Constrained Gyroscope	155
Nomitsu, T.—A Theory of Tunamis and Seiches produced by Wind and Barometric Gradient	201
Nomitsu, T.—Surface Fluctuations of Lake Biwa caused by the Muroto Typhoon	221
Nomitsu, T. and Habu, K.—Proper Oscillations of the Sea of Continental Shelf	247
Park, C. (朴哲在)—A Study of the Carbonization of Ramie Cellulose by means of X- Rays and the "Net Density Method"	311
Sassa, K.—Volcanic Micro-Tremors and Eruption-Earthquakes (Part I of the Geophy- sical Studies on the Valcano Aso)	255
Satô, T.—An Integral Equation with a Parameter	35
Satô, T.—On Abel's Integral Equation	63
Takei, B.—Net Density of Starch	169
Tanaka, K. and Tien, H. Y. (田時雨)—Transformation from Vitreous to Metallic Se- lenium	* (No. 6) 309
Tien, H. Y. (田時雨)—(see Tanaka, K. and Tien, H. Y.)	* (No. 6) 309
Toyohara, Y.—A Study on the Coastal Ground Water at Yumigahama, Tottori * (No. 5)	295
Ueta, J.—Graphical Computation of Jupiter's Perturbation on Asteroids	41
Yoshida, U. and Koyanagi, K.—Melting of Metal-Crystals at their Boundaries, and a Theory of Recrystallization of Metals	9

* N. B. Pp. 259-309 are duplicated owing to misnumbering. Hence, for this section only, Nos. of parts are prefixed to numbers of pages in the index.

INDEX OF SUBJECTS TO VOLUME XVIII

	PAGE
Abel's Integral Equation, On, (<i>Satō</i>)	63
Annual Variation of Temperature of Ocean or Lake, A Theory of the, (<i>Namekarawa</i>)	239
Aromatic Carboxylic Acid Esters under High Pressure and Temperature, Catalytic Reduction of, (<i>Mitsui</i>)	329
Atmospheric Pressure (II), A Study of the Minor Fluctuation of the, (<i>Namekarawa</i>)	83
Atmospheric Pressure (III), A Study of the Minor Fluctuation of the, (<i>Namekarawa</i>)	173
Atmospheric Pressure (IV), A Study of the Minor Fluctuation of the, (<i>Namekarawa</i>)	317
Catalytic Reduction of Aromatic Carboxylic Acid Esters under High Pressure and Temperature (<i>Mitsui</i>)	329
Carbon, Net Density and X-ray Investigation of, (<i>Matsunaga</i>)	215
Carbonization of Ramie Cellulose by means of X-Rays and the "Net Density Method," A Study of the, (<i>Paré</i>)	311
Coastal Ground Water at Yumigahama, Tottori, A Study of the, (<i>Toyohara</i>) * (No. 5)	295
Continental Shelf, Proper Oscillations of the Sea of, (<i>Nomitsu and Habu</i>)	247
Crystal Structure and Crystalline Configuration of the Normal and Modified Si-Al Alloys, On the, (<i>Kotō</i>)	17
Crystalline Configuration of the Normal and Modified Si-Al Alloys, On the Crystal Structure and, (<i>Kōtō</i>)	17
Density and X-ray Investigation of Carbon, Net, (<i>Matsunaga</i>)	215
Density of Starch, Net, (<i>Takei</i>)	169
Dispersement et l'Écart Moyen de l'Écoulement des Eaux Souterraines, III. Expériences Faites dans le Sol, Sur le, (<i>Kitagawa</i>)	129
Eaux Souterraines, III. Expériences Faites dans le Sol, Sur le Dispersement et l'Écart Moyen de l'Écoulement des, (<i>Kitagawa</i>)	129
Eruption-Earthquakes (Part I of the Geophysical Studies on the Volcano Aso), Volcanic Micro-Tremors and, (<i>Sassa</i>)	255
Fundamental Investigation of Motion of a Vertically Constrained Gyroscope, A, (<i>Nitta</i>)	155
Graphical Computation of Jupiter's Perturbation on Asteroids (<i>Ueta</i>)	41
Group of Zero-Sequence, On the, (<i>Matsumoto</i>)	1
Gyroscope, A Fundamental Investigation of Motion of a Vertically Constrained, (<i>Nitta</i>)	155
Inneren Aufbau der Weissen Zwerge, Über den, (<i>Araki and Kurihara</i>)	137
Integral Equation, On Abel's, (<i>Satō</i>)	63
Integral Equation with a Parameter, An, (<i>Satō</i>)	35
Isomers, Difference in the X-Ray Diffraction Patterns of some, (<i>Muro</i>)	79
Lake Biwa caused by the Muroto Typhoon, Surface Fluctuations of, (<i>Nomitsu</i>)	221
Melting of Metal-Crystals at their Boundaries, and a Theory of Recrystallization of Metals (<i>Yoshida and Koyanagi</i>)	9
Minor Fluctuation of the Atmospheric Pressure, (II), A Study of the, (<i>Namekarawa</i>)	83
Minor Fluctuation of the Atmospheric Pressure, (III), A Study of the, (<i>Namekarawa</i>)	173
Minor Fluctuation of the Atmospheric Pressure, (IV), A Study of the, (<i>Namekarawa</i>)	317
Muroto Typhoon, Surface Fluctuations of Lake Biwa caused by the, (<i>Nomitsu</i>)	221

	PAGE
Onyx, On the Arrangement of Micro-Crystals of Silica in the, (<i>Ichinose</i>)	315
Perturbation on Asteroids, Graphical Computation of Jupiter's, (<i>Ueta</i>)	41
Proper Oscillations of the Sea of Continental Shelf (<i>Nomitsu</i> and <i>Habu</i>)	247
Ramic Cellulose by means of X-Rays and the "Net Density Method", A Study of the Carbonization of, (<i>Park</i>)	311
Recrystallization of Metals, Melting of Metal-Crystals at their Boundaries, and a Theory of, (<i>Yoshida</i> and <i>Koyanagi</i>)	9
Selenium, Transformation from Vitreous to Metallic, (<i>Tanaka</i> and <i>Tien</i>) . . .*(No. 6)	309
Sequence, On the Group of Zero-, (<i>Matsumoto</i>)	1
Si-Al Alloys, On the Crystal Structure and Crystalline Configuration of the Normal and Modified, (<i>Kotô</i>)	17
Silica in the Onyx, On the Arrangement of Micro-Crystals of, (<i>Ichinose</i>)	315
Sonnenatmosphäre, Über die Turbulenz in der, (<i>Kurihara</i>)*(No. 6)	295
Starch, Net Density of, (<i>Takei</i>)	169
Study of the Minor Fluctuation of the Atmospheric Pressure (II), A, (<i>Nomekawa</i>) . . .	83
Study of the Minor Fluctuation of the Atmospheric Pressure (III), A, (<i>Nomekawa</i>) . . .	173
Study of the Minor Fluctuation of the Atmospheric Pressure (IV), A, (<i>Nomekawa</i>) . . .	317
Study on the Coastal Ground Water at Yumigahama, Tottori, A, (<i>Toyohara</i>) .*(No. 5)	295
Surface Fluctuations of Lake Biwa caused by the Muroto Typhoon (<i>Nomitsu</i>)	221
Sur le Dispersement et l'Écart Moyen de l'Écoulement des Eaux Souterraines III. Ex- périences Faites dans le Sol (<i>Kitagawa</i>)	129
Temperature of Ocean or Lake, A Theory of the Annual Variation of, (<i>Nomekawa</i>) . . .	239
Theory of the Annual Variation of Temperature of Ocean or Lake, A, (<i>Nomekawa</i>) . . .	239
Theory of Tunamis and Seiches produced by Wind and Barometric Gradient, A, (<i>Nô- mitsu</i>)	201
Transformation from Vitreous to Metallic Selenium (<i>Tanaka</i> and <i>Tien</i>) . . .*(No. 6)	309
Tunamis and Seiches produced by Wind and Barometric Gradient, A Theory of, (<i>Nô- mitsu</i>)	201
Turbulenz in der Sonnenatmosphäre, Über die, (<i>Kurihara</i>)*(No. 6)	295
Volcanic Micro-Tremors and Eruption-Earthquakes* (Part I of the Geophysical Studies on the Volcano Aso) (<i>Sassa</i>)	255
Weissen Zwerge, Über den inneren Aufbau der, (<i>Araki</i> and <i>Kurihara</i>)	137
X-Ray Diffraction Patterns of some Isomers, Difference in the, (<i>Muro</i>)	79
X-ray Investigation of Carbon, Net Density and, (<i>Matsunaga</i>)	215
Yumigahama, Tottori, A Study on the Coastal Ground Water at, (<i>Toyohara</i>) .*(No. 5)	295

* N. B. Pp. 259-309 are duplicated owing to misnumbering. Hence, for this section only, Nos. of parts are prefixed to numbers of pages in the index.