

CONTENTS

- Classified Observation of Small Current Interruption Phenomena in Power Systems..... Yukio Kito 1

Research Reports

- On a Renewal Problem..... Tamio Ono and Ikuma Ishii 64
Foil-Gauge of Electrodeposited-Copper..... Hajimu Ōkubo and Kikuo Hosono 77
On the Frictional Resistance of Enclosed Rotating Disc of Various Surfaces..... Kōmei Watabe 81
Experiments on the Comparison between Cascade and Axial-Flow Compressor Performances. (Part I: Experiment on Cascades)..... Shintaro Otsuka and Tadashi Sato 95
Experiments on the Comparison between Cascade and Axial-Flow Compressor Performances (Part II: Experiment on Axial-Flow Compressor).... Shintaro Otsuka and Tadashi Hiki 107
On the Scattering of Sound wave in a Non-Isotropic Turbulence... Éi Iti Takizawa, Akihiko Kumazawa and Keiko Kobayasi 121
Statistical Consideration about the Critical Rate of Strength of Materials..... Éi Iti Takizawa and Keiko Kobayasi 131
On the Vibration of Aerofoil. I. Localized Vibration of Linear Elastic Chain..... Éi Iti Takizawa and Keiko Kobayasi 138
On the Dielectric Absorption Phenomena in Plasticized Polyvinyl Chloride by Polarity Reversal Method of Direct Current Voltage..... Masayuki Ieda and Ukichi Shinohara 150
Low Frequency Wave Propagation in a Drifting Plasma.... Takayoshi Okuda and Kenzo Yamamoto 160
Electroacoustic Wave in Quasi-Steady Approach..... Takayoshi Okuda and Kenzo Yamamoto 166
Propagation of Temperature Disturbance in Gaseous Plasma Takayoshi Okuda and Kenzo Yamamoto 170
Equilibrium Temperature of Particles in Partially Ionized Plasma..... Takayoshi Okuda 176
Penetration of Ion Sheath into Plasma..... Takayoshi Okuda and Kenzo Yamamoto 179

(Continued on Cover 3)

Sur les Qualites Principales des Voyelles Soutenues et des Paroles Continues.....	
.....Yoshiyuki Ochiai, Teruo Fukumura et Fumio Ishino	182
Study on a Paticular Problem of Timbre Pattern of Oral Vowels—Crevasse Phenomena in Formant Structure—	
Due to Vocal Forcing in Pitch and Level.....	
.....Yoshiyuki Ochiai, Teruo Fukumura and Takashi Sakurai	187
Foundamental Study on Production of Copper Powder by Direct Electrolysis (1)	
.....Hachie Sawamoto, Takeo Oki and Akira Nishina	197
Study on Preparation of Beryllium Fluoride—By Reaction between BEO and NH ₄ F (or NH ₄ HF ₂)—.....	
.....Hachie Sawamoto, Takeo Oki and Jun Tanikawa	209
Analytical Determination of Carbon Varieties and Graphitizability of Binder Pitch in Graphitized Carbon Products	
.....Michio Inagaki and Tokiti Noda	215

名古屋大学
工学部紀要
第14巻 第1-2号

昭和38年3月20日印刷
昭和38年3月30日発行

編集兼発行者
名古屋大学工学部

名古屋市昭和区東郊通7ノ8
印刷者 東崎昌教
名古屋市昭和区東郊通7ノ8
印刷所 東崎印刷合名会社