

CONTENTS

Infrared Characteristics for Titanium Tungsten Films on Silicon Substrate	Shigeyuki UEMATSU.....	1
On Infrared Running Detection System for Hot Junction of Trolley Line.....	Matsunaga MATSUI and Shigeyoshi TAMASHIGE.....	9
Numerical Analysys of Communication Characteristics in DC Machine with Wave Winding	Tsuguo ANDO.....	15
Time Response of Depletion Layer in Shot n-GaAs Schottky Diode	Asuo AISHIMA.....	23
High Field Transport Properties in AlGaAs-GaAs-AlGaAs Single Quantum well Layer	Asuo AISHIMA.....	35
A Method for digitized Data Reduction Using Angle Parameter	Masahiro FUJIMOTO.....	53
On the Estimation Method of Compressed Air Consumption during Pneumatic Caisson Sinking	Shuji HIRAKAWA.....	59
A Study on Stabilization of Sandy Soil Slope	Takemitsu TOMITA and Kazuyasu TANABE.....	67
Experimental Study on Elastic Shear Buckling of Clamped Square Plates with Square Holes	Minoru UENOYA and Masaki NAKAMURA.....	79
Study on the Shearing Strength and the Residual Stresses of Beam-to-Column Connections of Wide Flange	Akio NAKAYAMA and Hirotugu KUWADA.....	89
Experimental Study on the Strength of New Expansion Bolts	Akio NAKAYAMA and Hirotugu KUWADA.....	95
Characteristics of Earthquakes observed in Fukuyama University	Teruo KAMAMDA.....	101
Studies on the Formation of Dust on the Surface of External Walls of A Concrete Building	Shigeo CHINO.....	119
A Note on CAI in the Architectural Education (6) (Analysis of the Results of using CAI programs)	Tomoyuki YOKOI.....	127
V-T Characteristics of Oil Impregnated Paper Insulation and the Drawing by a Computer	Yasunobu YOSHIDA, Yoshinori ITO, Yasuo INOUE and Kimio SUGANUMA.....	137
The Extraction of Defects in Wood and Feature Extraction of Grain Patterns	Fujio KOBAYASHI and Hirokazu IKEDA.....	155
Curve Detection based on Segments Analysis	Katsumi MORI.....	165
Sex and Species differentiation in <i>Saccharomyces</i> yeasts	Taisuke HISATOMI.....	173
Primary Structures and Gene Expressions of <i>Pseudomonas</i> Isoamylase and Maltotetraose-Forming Amylase	Masaya FUJITA.....	189