RESEARCH REPORTS OF
NATIONAL INSTITUTE OF TECHNOLOGY (KOSEN),
NAGAOKA COLLEGE VOL. 56
DECEMBER 2020

CONTENTS

Paper
Numerical Analysis of Temperature Field Considering Embedded Body Based on the Fictitious Domain FEM in Three Dimensions
Takahiko KURAHASHI, Askhar AIBOLAT and Yoshitaka KAWADA
Fundamental Study on Identification Analysis of The Young's Modulus Used in Stability Evaluation of Ground Structure
Takahiko KURAHASHI, Kenta YOSHIHARA and Tetsuro IYAMA
Formulation on Topology Optimization Using the Level Set Method Based on Discrete System and Numerical Experiments
Ryota SAKAI, Kenta YOSHIHARA, Masayuki KISHIDA, Takahiko KURAHASHI and Tetsuro IYAMA
Optimization of Heat Source Boundary Shape in Thermal Convection Field Based on the Adjoint Variable and the Finite Element Methods
Takashi AOKI, Takahiko KURAHASHI, Eiji KATAMINE and Yoshitaka KAWADA
Flow Field Estimation Analysis in Shallow Water Region Based on the Kalman Filter FEM
Souta INOUE, Takahiko KURAHASHI, Toshiaki KENCHI, Toshihiko ETO
Trial of Dictation Activities as a Tool to Learn the Orthography of Second Language Vocabulary
Noboru FUKUDA
Problems of the Surface Indicator Blocks and Maintenance in Local Cities
Kazuhiro MIYAKOSHI, Hayato SUGISAWA
Shape Optimization of Texture for Reduction of Friction (Influence of Magnitude of Velocity for Optimized Shape)
Syuta SASAOKA, Takahiko KURAHASHI and Tetsuro IYAMA
Beliefs about Extensive Reading in the Japanese Language
Momoka HYODO

Note
Educational Effects of “Students’ Needs Oriented Lesson for Physics”
Minako WATANABE, Shuichi SATO and Naritoshi AOYAGI
A Formula on a Center of an General Dimensional Sphere
An ISHIKAWA, Shiori ONDA, Mayumi ITO
Kimitoshi SATOH

Themes of Graduation Study 2019

Thesis of Special Study at Advanced Engineering Courses 2019