

# 東海大学紀要

工 学 部

Vol.58, No.1 2018

---

## 目次

### 論文

- 二次圧密モデルに関する一考察……………吉富隆弘・赤石 勝・杉山太宏…… 1  
K<sub>0</sub> 過圧密粘土の有効応力経路と塑性ひずみ……………今井誉人・吉富隆弘・赤石 勝・外崎 明・杉山太宏…… 6  
植物育成用光学薄膜の設計と簡易温室への適用……………木下理裕・佐々木圭介・岩森 暁…… 11

### 2018 年度 新任教員研究紹介

- 光・画像工学科……………竹下 秀…… 16  
原子力工学科……………若杉圭一郎…… 18  
電気電子工学科……………大口英樹…… 20  
土木工学科……………鈴木美緒…… 22  
土木工学科……………藤原覚太…… 24  
精密工学科……………土屋寛太郎…… 26  
動力機械工学科……………葛生和人…… 28

PROCEEDINGS  
OF THE  
SCHOOL OF ENGINEERING  
OF  
TOKAI UNIVERSITY  
CONTENTS

---

**VOL.58, No.1 2018**

---

**Technical Papers**

A Model for Evaluating Secondary Consolidation

..... Takahiro YOSHIDOMI, Masaru AKAISHI and Motohiro SUGIYAMA ... 1

Effective Stress Path and a Plastic Strain of  $K_0$  Over-Consolidated Clay

..... Yoshito IMAI, Takahiro YOSHIDOMI, Masaru AKAISHI, Akira TONOZAKI and Motohiro SUGIYAMA ... 6

Design of Optical Thin Films for Plant Growth and Application for Simple Greenhouse

..... Masahiro KINOSHITA, Keisuke SASAKI and Satoru IWAMORI ... 11

**Introduction of research activities of new faculty members (2018)**

Dept. of Optical and Imaging Science and Technology ..... Shu TAKESHITA ... 16

Dept. of Nuclear Engineering ..... Keiichiro WAKASUGI ... 18

Dept. of Electrical and Electronic Engineering ..... Hideki OGUCHI ... 20

Dept. of Civil Engineering ..... Mio SUZUKI ... 22

Dept. of Civil Engineering ..... Kakuta FUJIWARA ... 24

Dept. of Precision Engineering ..... Hirotarou TSUCHIYA ... 26

Dept. of Prime Mover Engineering ..... Kazuto KUZUU ... 28

論 文

Technical Papers