

# Table of Contents

## Preface

## Chapter 1: Geotechnics and Structural Engineering

### Characteristics of Clay Soils Utilizing Okra Tips

K.W. Abd Al-Kareem, M.D. Noori, M.K. Hameedi and Z.H. Shaker 3

### Three Dimensional Finite Element Model of Railway Ballasted Track System under Dynamic Train Loading

Z.A. Alkaissi 11

### Modeling of FRP Strengthening of RC Girder Curved Soffits

M.Z. Kareem and Q.W. Ahmed 23

### Waffle, Ribbed and Composite Joists Slabs: A Review Study

A.S. Al-Issawi, N.H. Alshareef and A.S. Al-Ameeri 31

## Chapter 2: Concrete Technology

### A Review of Shear Strength of Hybrid Fiber Reinforced Geopolymer Concrete under Ambient Condition

H.H. Munthir and H.M.A. Albegmprli 45

### The Effect of GGBFS on the Rheological and Compressive Strength Properties of Oil well Cement Slurries by Using "Superplasticizer"

W. Ali Hussein, A.S. Ali and Q.S. Noaman 57

### Properties of Self-Compacting Concrete Containing Waste Tires Rubber as Aggregates and Filler Additives

A.S. Ali and T.M. Hasan 69