

LIST OF KEY WORDS IGS JOURNAL

A

Abrasive
Absorption
Abutment
Acceleration
Accelerometer
Accreditation
Accretion
Accuracy
Acid rain
Acidic water
Acids
Active pressure
Adhesive
Admixtures
Adsorbed water
Adsorption
Aerial photography
Aerial survey
Aggradation
Aggregate
Aging
Algorithm
Alignment
Alkalinity
Allocation
Alluvial deposits
Alluvium
Amplification
Amplitude
Analysis
Analytical techniques
Anchor
Anchorage
Angle of friction
Anisotropic materials
Anisotropic soils
Anisotropy
Application methods
Approximation methods
Aquifers
Arsenic
Artificial islands
Artificial recharge
Ashes
Asymmetry
Atmospheric pressure
Atrest pressure
Atterberg limit
Auger
Axial compression
Axial force
Axial load
Axial strain
Axisymmetry

B

Backfills
Ballast
Barrier island
Base friction
Basement
Bearing capacity
Bearing design
Bedrock
Bending moments
Bentonite
Biaxial load
Biaxial stress
Biaxial test
Bitumen

Black-cotton soil
Blast load
Blasting
Bond stress
Bored pile
Borehole
Boring
Boulder
Boundary element method
Boundary shear
Breakwater
Bridge foundations
Building code
Bulk density
Buoyancy

C

Cadastral survey
Caisson
Calcareous soil
Capillary
Carbonation
Cargo
Casing
Cast in place
Cavity
Cement
Cement grouting
Cemented
Centrifuge
Centrifuge model
Chemical grouting
Classification
Clay
Clay liner
Closed form solutions
Coal
Coal ash
Coarse grained soils
Coating
Cofferdam
Cohesion
Cohesionless sediment
Cohesionless soil
Cohesive sediment
Cohesive soil
Collapsible soil
Colloids
Colluvium
Column
Compacted soil
Compaction
Compaction grouting
Compaction pile
Compatibility
Composite
Compressibility
Compression test
Compressive strength
Computer aided design
Computer aided simulation
Computer analysis
Concentrated load
Concentration
Concrete pile
Cone penetration test
Consolidation
Constitutive equation
Constitutive model
Constitutive relations
Construction
Construction cost
Construction equipment
Construction method

Construction sites
Contact pressure
Continuum hypothesis
Convergence
Corrosion
Corrosion resistance
Cost analysis
Creep
Critical gradient
Critical path
Critical void ratio
Curtain grouting
Curtain wall
Curve fitting
Cyclic load
Cyclic strength
Cyclic test

D

Dam construction
Dam design
Dam failure
Dam foundations
Dam safety
Damage
Damping
Darcy's law
Data analysis
Dead loads
Deep compaction
Deep excavations
Deep explosions
Deep foundations
Deformation
Degree of saturation
Degrees of freedom
Densification
Density
Deposition
Desiccation
Design
Design chart
Design criteria
Design standards
Dewatering
Diaphragm wall
Dielectric constant
Differential equation
Differential settlement
Diffusion
Dilatancy
Dimensional analysis
Discrete elements
Discrimination
Displacement
Distinct elements
Distribution function
Down drag
Drainage
Drained condition
Dredging
Drilled pier foundation
Drilled shafts
Drilling
Driven pile
Dynamic analysis
Dynamic load
Dynamic pressure
Dynamic properties
Dynamic response
Dynamic test
Dynamics

E

Earth fill

Earth pressure
Earth reinforcement
Earthquake engineering
Earthquake load
Earthquake magnitude
Earthquake resistant
structures
Earthquakes
Earthwork
Eccentric loads
Effective stress
Elastic analysis
Elastic deformation
Elastic foundations
Elastic half space
Elastic properties
Elasticity
Elastoplasticity
Electrical resistivity
Electro osmosis
Embankment stability
Embankments
Embedded foundation
Embedment
Empirical equation
Energy
Energy consumption
Engineering
Equilibrium
Equipment
Erosion
Excavation
Expansion
Expansion joint
Expansive soil
Experimental data
Experimentation
Exploration

F

Failure
Failure load
Failure mode
FEM
Fiber reinforced materials
Field density
Field investigations
Field test
Fills
Filter
Fine-grained soil
Finite difference method
Finite differences
Finite element method
Finite elements
Finite strip method
Flow net
Fly ash
Footing
Force
Foundation
Foundation construction
Foundation design
Foundation settlement
Fourier analysis
Frequency analysis
Frequency response
Friction
Friction resistance
Froude number
Frozen soil
Full-scale test
Functional analysis
Fuzzy sets

G

Gabions
 Geodetic survey
 Geogrid
 Geomembrane
 Geophysical survey
 Geosynthetic
 Geotechnical engineering
 Geotechnical investigation
 Geotechnical model
 Geotextile
 Geothermal energy
 Glacial till
 Grain size
 Granular material
 Graphic method
 Gravel
 Gravity
 Gravity foundation
 Gravity load
 Gravity wall
 Gravity wave
 Grillages
 Grinding
 Groins
 Ground improvement
 Ground motion
 Ground water
 Ground-water depletion
 Ground-water recharge
 Grouting

H

Half space
 Hazardous waste
 Heave
 Heterogeneity
 Highways
 History
 Holes
 Homogeneity
 Horizontal loads
 Hydraulic fill
 Hydrodynamic pressure
 Hydrodynamics
 Hydroelasticity
 Hydrographic survey
 Hydrostatic pressure
 Hydrostatic uplift
 Hydrostatics
 Hysteresis

I

Impulsive load
 Inclined load
 Incremental load
 Individual footing
 Influence charts
 Information retrieval
 Information systems
 Information technology (IT)
 Infrastructure
 Initial stress
 Injection
 In-situ test
 Inspection
 Installation
 Instrumentation
 Intake structures
 Integrated system
 Intelligent structure
 Interactions
 Interface shear
 Interfaces

Interfacial tension
 Internal forces
 Internal friction
 Internal pressure
 International development
 International factor
 Interpolation
 Investigation
 Ion adsorption
 Ion exchange
 Island Impact force
 Islands
 Isolation
 Isotropic material
 Isotropy

J

Jet diffusion
 Jet grouting
 Jetting
 Joint
 Jointed rock

K

Kinematics
 Kinetics

L

Laboratories
 Laboratory test
 Lagoons
 Land application
 Land development
 Land information
 Land management
 Land reclamation
 Land subsidence
 Land survey
 Landfill
 Landscaping
 Landslide
 Lateral displacement
 Lateral load
 Lateral pressure
 Lateral stability
 Lateral stress
 Laterite
 Layered soil
 Leaching
 Lime
 Limestone
 Limit analysis
 Limit design
 Limit equilibrium
 Limit state

Linear analysis
 Linear function
 Linear system
 Liners
 Lining
 Liquefaction
 Liquid limit
 Liquids
 Littoral deposit
 Live load
 Load
 Load bearing capacity
 Load distribution
 Load duration
 Load factor
 Load resistance
 Load test
 Load transfer
 Loading history
 Loading rate

Loess**M**

Machine foundation
 Marble
 Marine clay
 Marine deposit
 Mat foundation
 Material
 Mathematical model
 Matrix method
 Maximum load
 Mechanical properties
 Mechanics
 Membrane
 Mesh generation
 Meshfree
 Meshless method
 Methodology
 Metric systems
 Micro pile
 Microporosity
 Mine subsidence
 Mineral deposit
 Mini pile
 Mixing
 Model analysis
 Model test
 Models
 Modulus of elasticity
 Moisture
 Moisture content
 Moment distribution
 Motion
 Mud wave

N

Nails
 Negative pore pressure
 Negative skin friction
 Network analysis
 Neural networks
 Noncohesive soil
 Nonlinear analysis
 Nonlinear differential equations
 Nonlinear response
 Nonuniformity
 Normally loaded soils
 Numerical analysis
 Numerical model
 Nutrient load

O

Observation well
 Oedometer
 Offshore construction
 Offshore drilling
 Offshore structure
 Oil storage
 Optimization
 Optimization model
 Organic soil
 Osmosis
 Overburden pressure
 Overconsolidated soil

P

Partially saturated soil
 Particle distribution
 Particle interaction
 Particle size
 Particle size distribution
 Passive pressure
 Pavement
 Peat

Penetration test
 Permeability
 Permeability test
 Pervious
 Photography
 Physical properties
 Piers
 Piezocone
 Piezometers
 Pile
 Pile caps
 Pile driving
 Pile foundation
 Pile friction
 Pile groups
 Pile hammers
 Pile lateral load
 Pile load test
 Pile settlement
 Pile structure
 Pile test
 Plane strain
 Plastic analysis
 Plastic deformation
 Plastic properties
 Plasticity
 Poisson's ratio
 Pore pressure
 Pore size distribution
 Pore water
 Pore water pressure
 Poroelasticity
 Porosity
 Porous materials
 Porous media
 Portland cements
 Preconsolidated soil
 Preconsolidation pressure
 Prediction
 Preloading
 Pressure
 Pressure distribution
 Pressure measurement
 Pressure meter
 Probabilistic method
 Probability distribution
 Prototype test
 Pull-out resistance
 Pumping test

Q

Qualitative analysis
 Quality control
 Quarry
 Quarry dust

R

Raft foundation
 Random variable
 Recharge well
 Reclamation
 Regional analysis
 Regression analysis
 Regression models
 Reinforced earth
 Reinforced soil
 Reinforcement
 Relative density
 Relaxation
 Remedial action
 Remoulded soil
 Repeated load
 Residual soil
 Residual strength

Residual stress
Resistivity
Resonance
Resource management
Retaining wall
Risk management
Rock anchors
Rock cores
Rock fills
Rock joints
Rock mechanics
Rock Roughness
RPIM

S

Safe bearing capacity
Safety
Safety factor
Saline ground water
Sample disturbance
Sampling
Sand drain
Saturated soil
Scale effect
Sea wall
Sediment
Sediment deposits
Sediment load
Segregation
Seismic analysis
Seismic design
Seismic effect
Seismic survey
Seismic test
Seismic waves
Sensitive soil
Sensitivity analysis
Service load
Settlement
Shaft
Shaft resistance
Shake table tests
Shallow foundation
Shear
Shear deformation
Shear distribution
Shear failure
Shear forces
Shear modulus
Shear properties
Shear resistance
Shear strain
Shear strength
Shear stress
Shear tests
Shear wall
Sheet pile
Shells
Shrinkage
Sieve analysis
Silt
Simulation
Site investigation
Site selection
Site survey
Size effect
Skin friction
Slaking
Slenderness ratio
Slope stability
Slurry wall
Soft clay
Softening
Soil analysis

Soil anchors
Soil cement
Soil chemistry
Soil classification
Soil compaction
Soil condition
Soil consolidation
Soil deformation
Soil dynamics
Soil erosion
Soil exploration
Soil gas
Soil grouting
Soil liquefaction
Soil loss
Soil mechanics
Soil mixing
Soil modulus
Soil moisture
Soil nailing
Soil permeability
Soil pollution
Soil porosity
Soil pressure
Soil properties
Soil resistance
Soil sampling
Soil settlement
Soil stabilization
Soil strength
Soil stresses
Soil structure
Soil suction
Soil surveys
Soil tests
Soil treatment
Soil water
Soil water movement
Soil-pile interaction
Soils
Soil-structure interaction
Solutions
Spatial analysis
Spatial data
Spatial distribution
Specific weight
Spread footing
Spread foundation
SPT
Stabilization
Standard deviation
Standards
State-of-the-art
Static cone tests
Static load
Static test
Steel piles
Stiff clay
Stiffness methods
Stiffness test
Stochastic model
Stoke's law
Stone column
Stones
Storage tank
Strain
Strain distribution
Strain gage
Strain hardening
Strain measurement
Strain rate
Strain relaxation
Strain softening

Strength
Stress
Stress analysis
Stress concentration
Stress distribution
Stress history
Stress intensity factor
Stress measurement
Stress relaxation
Stress strain relation
Structural analysis
Structural failure
Structural response
Structural safety
Structural settlement
Structure
Strut
Subsidence
Substructures
Surcharge
Surface roughness
Surveys
Suspended load
Swell pressure
Swelling soil
Symmetry
system
System analysis
T
Temperature
Temperature distribution
Tensile load
Tensile strain
Tensile strength
Tensile stress
Tension
Test equipment
Test procedures
Tests
Theories
Thixotropy
Three dimensional analysis
Three dimensional models
Time series analysis
Topographic surveys
Topsoil
Transducers
Transient load
Transverse load
Transverse shear
Triaxial compression
Triaxial load
Triaxial shear
Triaxial tests
Tropical soil
Tunnel construction
Tunnel lining
Two dimensional analysis
Two-dimensional models
U
Ultimate bearing capacity
Ultimate load
Ultimate strength
Underground construction
Underpinning
Undisturbed sample
Uniformity
Unsaturated soil
Unsymmetrical footing
Uplift pressure
Uplift resistance
Urban development

V

Vacuum
Validation
Variance analysis
Vector analysis
Velocity distribution
Vertical force
Vertical load
Vibration
Viscoplasticity
Void ratio
Volcanic deposit

W

Wall
Wall friction
Waste management
Waste treatment
Water
Water content
Water pressure
Wave equation
Wave equation
Wave force
Weathered rock
Weathering
Well foundation
Well graded soil
Wind force
Wind load
Wind pressure
Wood piles

X

X-ray analysis
X-ray diffraction

Y

Yield
Yield stress
Yield surface
Young's modulus

Z

Zero air void