

Basic Information :

 Name :
 AHMED FAROUK MOHAMED HASSAN DEIFALLAH

 Title :
 Professor



Education:				
Certificate	Major	University	Year	
PhD	Civil Engineering	McMaster University - Canada	2008	
Masters	Civil Engineering - Structural Engineering	Cairo University - Faculty of Engineering	2001	
Bachelor	civil engineering	Cairo University - Faculty of Engineering	1998	

Teaching Experience:					
Name Of Organization	Position	From Date	To Date		
FUE	Vice Dean	04/02/2018	Current		

Researches / Publications :

Enhancing concrete strength and durability through incorporation of rice husk ash and high recycled aggregate Machine learning-based prediction of torsional behavior for ultra-high-performance concrete beams with variable cross-sectional shapes New Trends in Sustainable Concrete Industry Using Aggregate Replacement Effect of Severe Environment and radiation on the behavior of Cementitious Materials Modified by CKD and GBFS Estimation of uniaxial compressive strength and elastic modulus of carbonate rocks by various methods The Behavior of High-Strength Geo-polymer Columns with Ferro-cement Review in the Behavior of Ferrocement in Construction Technolog The Flexural Performance of Geopolymer Reinforced Concrete Beam: A Review Flexural Behavior of Over-reinforced Concrete Beams Strengthened with Steel Fiber Influence of pozzolanic material in Cement Concrete mixes contain Cement Kiln dust Mechanical Properties of Ferrock Concrete : An Experimental study Data Utilization and Partitioning for Machine Learning Applications in Civil Engineering Infulence of water flow speed on the torgues behaviour of the hybrid HKT Enhancing the heat transfer efficiency of an engine heat exchanger through the utilization of an innovative conical braided wire turbulator Influence of graphene nanoplatelets (GnPs) and titanium dioxide (TiO2) hybrid fillers on the mechanical, thermal, and morphological performance of polypropylene (PP) based hybrid composites Designing of NiMn-MOF@MXene nanorods@AC@NF electrode material for high performance electrochemical based energy storage devices Financially Focused 3E Optimization of Innovative Solar-Powered Dual-Temperature Refrigeration Systems: Balancing Cost-Effectiveness with Environmental Sustainability

Thermal enhancement of a heat exchanger of engine via U-cut and V-cut zigzag strip turbulator combined with bubble injection method



Machine Learning Algorithms for Predicting Energy Consumptionin Educational Buildings

Enhancing green hydrogen production via improvement of an integrated double flash geothermal cycle; Multi-criteria optimization and exergo-environmental evaluation

nvestigating the rheological characteristics of alkali-activated concrete using contemporary artificial intelligence approaches

Effect of banana tree leaves ash as cementitious material on the durability of concrete against sulphate and acid attacks

A review on partial substitution of nanosilica in concrete

Hydrothermal performance analyses of an isothermal tube with punched twisted tape turbulator (PTT)

Performance analysis of spiral heat exchanger based on E-RPN and BWM multi-criteria decision algorithm-application of combined heat and power systems

Numerical study of functional parameters of compact heat exchanger with the corrugated wall in steady state

A review on application of hydrogen in gas turbines with intercooler adjustments

Experimental and computational validation of thermal performance of an active greenhouse solar dryer in no-load conditions

Thermodynamic, exergetic and environmental evaluation and optimization of a bio-fuel fired gas turbine incorporated with wind energy derived hydrogen injection

Low-carbon embodied alkali-activated materials for sustainable construction: A comparative study of single and ensemble learners

Thermal/econmic/environmental considerations in a multi-generation layout with a heat recovery process; A multi-attitude optimization based on ANN approach

Structural performance of FRP composite bars reinforced rubberized concrete compressive members: Tests and numerical modeling

Improvement in the strength of concrete reinforced with agriculture fibers: Assessment on mechanical properties and microstructure analysis

Exploring the potential of agricultural waste as an additive in ultra-high-performance concrete for sustainable construction: A comprehensive review

Lie symmetry analysis and propagation of new dynamics of a negative-order model describing fluid flow

Nonlinear Study on the Mechanical Performance of Built-Up Cold-Formed Steel Concrete-Filled Columns under Compression

Heat of hydration, water sorption and microstructural characteristics of paste and mortar mixtures produced with powder waste glass

Optimization of adiabatic flame temperature of natural gas combustion under different conditions

Predicting the crack repair rate of self-healing concrete using soft-computing tools

First and second law analysis of a heat exchanger equipped with perforated wavy strip turbulator in the presence of Water-CuO nanofluid

Exploring the impact of varying notch-width ratios on electromagnetic radiation parameters at tensile fracture of C35000 brass

Multi-objective optimization of a microchannel heat sink with a novel channel arrangement using artificial neural network and genetic algorithm

A surrogate safety analysis at sharp gore areas of diverging freeway ramps using micro simulation under congested traffic conditions

An overview of the research trends on fiber-reinforced shotcrete for construction applications

Overall efficiency increment in a pin-fin microchannel heat sink using response surface methodology and Pareto optimization

Thermo-economic-environmental evaluation of an innovative solar-powered system integrated with LNG regasification process for large-scale hydrogen production and liquefaction

Fresh state and strength performance evaluation of slag-based alkali-activated concrete using soft-computing methods

A heat recovery-based thermal system design for an innovative solar thermal-driven multigeneration scheme: Energy, exergy, economic, and environmental (4E) analysis

Thermal-frictional behavior of new special shape twisted tape and helical coiled wire turbulators in engine heat exchangers system

New applications of the fractional derivative to extract abundant soliton solutions of the fractional order PDEs in mathematics physics

Arc-curved microchannels engraved on segmented circular heat sink for heat transfer augmentation; ANN-based performance optimization

Analyzing Soliton Solutions of the -dimensional generalized Kadomtsev. Petviashvili equation: Comprehensive study of dark, bright, and periodic dynamics



Advancements in low-carbon concrete as a construction material for the sustainable built environment

A hybrid Cycle GAN-based lightweight road perception pipeline for road dataset generation for Urban mobility

Complex dynamics of induced vortex formation and thermal-fluid coupling in tri-hybrid nanofluid under localized magnetic field: a novel study

Evaluation of Factors Affecting the Competitive Advantage of Organizations in Establishing Sustainable Project Management Post Covid-19

Data-driven strategy for evaluating the response of eco-friendly concrete at elevated temperatures for fire resistance construction

Feasibility of sequential anaerobic-aerobic integrated settler-based biofilm reactor for onsite treatment of domestic wastewater

Thermal performance enhancement in a double tube heat exchanger using combination of bubble injection and helical coiled wire insert

Case study of entropy optimization with the flow of Non-Newtonian nanofluid past converging conduit with slip mechanism: An application of geothermal engineering

Improving thermal and hydraulic performances through artificial neural networks: An optimization approach for Tesla valve geometrical parameters0

Assessment of the mechanical and durability characteristics of bio-mineralized Bacillus subtilis self-healing concrete blended with hydrated lime and brick powder

Influence of cyclic loading on lightweight self-compacting concrete double-skin tubular columns

Mix design optimization of metakaolin-slag-based geopolymer concrete synthesis using RSM

Development of a novel power and freshwater cogeneration plant driven by hybrid geothermal and biomass energy

Assessment of Compression Design of CFST

Assessment and Calibration of the ACI Punching Shear Resistance of LW Slabs Using Reliability Methods

FRP-RC Slabs Under Punching Shear: Assessment of Existing Models

Punching Shear Strength of FRP-Reinforced-Concrete using a Machine Learning Model

Torsion Strength of Concrete Beams with Steel Fibers, lightweight, or FRP: data driven code appraisal

Critical Shear Crack Theory for Shear Strength of Elements Subjected to Tension or Reinforced with FRP

Performance of lightweight foamed concrete partially replacing cement with industrial and agricultural wastes: Microstructure characteristics, thermal conductivity, and hardened properties

Prediction of the rubberized concrete behavior: A comparison of gene expression programming and response surface method

Numerical analysis of thermohydraulic and exergetic performance in corrugated spiral tubes with diverse arc corrugation configurations

Entropy generation analysis on heat transfer characteristics of Twisted corrugated spiral heat exchanger utilized in solar pond

Exploring the antecedents of AI adoption for effective HRM practices in Indian Pharmaceutical Sector

Overcoming implementation barriers in 3D printing for gaining positive influence considering PEST environment

Analysis of the mechanical properties of the single layered braid reinforced thermoplastic pipe (BRTP) for oil & gas industries

Study of Thermal And Mechanical Behavior by Analyzing Reinforcement Effect of Graphene Nanoplatelets on Polyamide-66 Composite System Developed via Melt-Mixing Technique

Energy, exergy and exergoeconomic analysis of a trans-critical CO2 cycle powered by a single flash geothermal cycle in with/without economizer working modes

Steel Fiber Reinforced Self-Compacting Concrete: A Comprehensive Review

Concrete Made with Partial Substitutions of Wheat Straw Ash: A Review

Perceptions and Preferences of University Students for Use of Pedestrian Bridge: A Gender Based Study

Tribological and oxidation resistance performance of Ti2AIC MAX-phase generated by reactive spark plasma sintering

Investigating the feasibility of producing sustainable and compatible binder using marble waste, fly ash, and rice husk ash: A comprehensive research for material characteristics and production

Evaluation of small hydropower turbines installed downstream of Nile River branches (Egypt)



Investigation and impact assessment of soybean biodiesel, methyl oleate, and diesel blends on CRDI performance and emissions Impediments in BIM implementation for the risk management of tall buildings

First principle study to investigate color tunable properties in Bi3+, Tb3+, and Yb3+ doped GdVO4 phosphor

A Two-Fold SPR-SERS Sensor Utilizing Gold Nanoparticles and Graphene Thin Membrane as a Spacer in a 3D Composite Structure

Thermal, mechanical, and photocatalytic dye degradation performances of the functionalized GO and TiO2 decorated carbon foam composites

Techno-economic case study of applying heat recovery and CO2 capture systems on a gas turbine power plant; 4E analysis

Nuclear Radiation Shielding Capabilities Of Fiber-Reinforced Concrete: A Case Study Hybrid-Polypropylene-Steel

Thermal conductivity, microstructure and hardened characteristics of foamed concrete composite reinforced with raffia fiber

Promoting the suitability of rice husk ash concrete in the building sector via contemporary machine intelligence techniques

A review on life cycle assessment of different pipeline materials

Artificial neural network-based optimization of baffle geometries for maximized heat transfer efficiency in microchannel heat sinks

Recent advances in the structure and biomedical applications of nanodiamonds and their future perspectives

Assessing Impacts of Mining-Induced Land Use Changes on Groundwater and Surface Water Quality Using Isotopic and Hydrogeochemical Signatures

Application of waste recycle tire steel fibers as a construction material in concrete

Evaluating the relevance of eggshell and glass powder for cement-based materials using machine learning and SHapley Additive exPlanations (SHAP) analysis

Adsorption Studies of Pb(II) and Cd(II) Heavy Metal Ions from Aqueous Solutions Using a Magnetic Biochar Composite Material

Simulation of Metal Ceramic Single Layer Coatings for Solar Energy Applications

Computational modeling of sigmoid functionally graded material (SFGM) Plate

A hybrid model based on convolution neural network and long short-term memory for qualitative assessment of permeable and porous concrete

A data-driven approach to predict the compressive strength of alkali-activated materials and correlation of influencing parameters using SHapley Additive exPlanations (SHAP) analysis

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Investigating the Influence of PVA and PP Fibers on the Mechanical, Durability, and Microstructural Properties of One-Part Alkali-Activated Mortar: An Experimental Study

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First-Principles Study of Color-Tunable Properties in Eu-Doped Mg2SnO4 Phosphors

A comprehensive numerical study on the effectiveness of a rotational-based PTC collector integrated porous foam and PV module

Design of Punching Shear Of R.C. Footings Using American And European Codes: A Comparative Study

Comparative study of genetic programming-based algorithms for predicting the compressive strength of concrete at elevated temperature

Emission Reduction and Performance Enhancement of CI Engine Propelled by Neem Biodiesel-Neem Oil-Decanol-Diesel Blends at High Injection Pressure

Code Provisions Evaluation for the Punching Shear Capacity of R.C Footings without reinforcement for punching shear

Exergoeconomic Evaluation of a Novel Multigeneration Process Using Solar Driven Kalina cycle Integrated with Gas Turbine Cycle, Double-Effect Absorption Chiller, and Liquefied Natural Gas Cold Energy Recovery

Heat transfer enhancement of a copper tube with constant wall temperature using a novel horizontal perforated teardrop-shaped turbulators (PTST)

Machine learning approach to predict the biofuel production via biomass gasification and natural gas integrating to develop a lowcarbon and environmental-friendly design: Thermodynamic-conceptual assessment

Optimization of a near-zero-emission energy system for the production of desalinated water and cooling using waste energy of fuel cells



The influence of coconut fibres and ground steel slag on strength and durability properties of recycled aggregate concrete: Sustainable design of fibre reinforced concrete

Scientometric analysis of flood forecasting for Asia region and discussion on machine learning methods

An innovative biomass-driven energy systems for green energy and freshwater production with less CO2 emission: Environmental and technical approaches

Flexural performance of concrete beams internally reinforced with steel, geogrid and GFRP meshes

The use of crushed recycled glass for alkali activated fly ash based geopolymer concrete and prediction of its capacity

Heterogeneous nucleation and growth of interlaced CuO nanosheets on porous Nickel foams as binder-free electrode material

Influence of Supports on the Low-Velocity Impact Response of Square RC Slab of Standard Concrete and Ultra-High Performance Concrete: FEM-Based Computational Analysis

Predicting the crack width of the engineered cementitious materials via standard machine learning algorithms

Optimizing compressive strength prediction models for rice husk ash concrete with evolutionary machine intelligence techniques

Sensitivity and robustness analysis of adaptive neuro-fuzzy inference system (ANFIS) for shear strength prediction of stud connectors in concrete

Sustainable concrete with partial substitution of paper pulp ash: A review

A shear model for FRP reinforced concrete elements based on refined Critical Shear Crack Theory parameters

Concrete Made with Partially Substitution Corn Cob Ash: A Review

A Review of the Effects of Different Parameters on Salt-Based Solar Thermal Energy Storage Systems

Self-Compacting Concrete with Partially Substitution of Waste Marble: A Review

A critical review on mechanical, durability, and microstructural properties of industrial by-product-based geopolymer composites

An assessment of the processing parameters and application of fibre-reinforced polymers (FRPs) in the petroleum and natural gas industries: A review

Thermal and hydrodynamic management of a finned-microchannel heat sink applying artificial neural network

An integral approach for testing and computational analysis of glass powder in cementitious composites

Simulation of CO2 capture from natural gas by cyclic pressure swing adsorption process using activated carbon Author links open overlay panel

Performance Evaluation of Fiber-reinforced Ferroconcrete using Response Surface Methodology

Competitive study of a geothermal heat pump equipped with an intermediate economizer for various ORC working fluids

Crack Sliding Model for Non-shear FRP-Reinforced Slender Concrete Elements under Shear

A comprehensive investigation of a water and energy-based waste integrated system: Techno-eco-environmental-sustainability aspects Author links open overlay panel

Experimental and Numerical Studies on Flexural Behavior of GGBS-Based Geopolymer Ferrocement Beams

Reliable Machine Learning for the Shear Strength of Beams Strengthened Using Externally Bonded FRP Jackets

Multi-aspect investigation and multi-criteria optimization of a novel solar-geothermal-based polygeneration system using flat plate and concentrated photovoltaic thermal solar collectors

Hydrothermal parameters enhancement of a DTHEX with simultaneous V-cut twisted tape turbulator and air/CuO-water flow usage

Comparison of gasoline and hydrogen pathways in order to reduce the environmental hazards of a solar-hydrogen refueling station; Evaluation based on life cycle cost and Well-To-Wheel models

Flexural Fracture Parameters of Polypropylene Fiber Reinforced Geopolymer

Structural properties of concrete reinforced with bamboo fibers: a review

Life cycle assessment (LCA) of polypropylene fibers (PPF) on mechanical, durability, and microstructural efficiency of concrete incorporating electronic waste aggregates

Response of High-Strength Concrete Beams with Corrugated Discrete Steel Fibers under the Influence of Small Shear Span. Depth Ratios

Optimal Insulation Assessment, Emission Analysis, and Correlation Formulation for Indian Region



Investigating the feasibility of using waste eggshells in cement-based materials for sustainable construction

Experimental investigation and AI prediction modelling of ceramic waste powder concrete . An approach towards sustainable construction

Optimization of Concrete Containing Polyethylene Terephthalate Powder and Rice Husk Ash Using Response Surface Methodology

Predicting parameters and sensitivity assessment of nano-silica-based fiber-reinforced concrete: A sustainable construction material Author links open overlay panel

Two-way Shear Full Behavior of Reinforced Concrete Flat Slabs under Membrane Tensile Forces.

Exergo-economic and exergo-environmental evaluations and multi-objective optimization of a novel multi-generation plant powered by geothermal energy

Sustainability and exergoeconomic assessments of a new MSW-to-energy incineration multi-generation process integrated with the concentrating solar collector, alkaline electrolyzer, and a reverse osmosis unit

Effect of hybrid-fiber- reinforcement on the shear behavior of high-strength-concrete beams

Application of machine learning algorithms to evaluate the influence of various parameters on the flexural strength of ultra-highperformance concrete

Development of a novel geothermal trigeneration system utilizing modified organic-flash cycle and zeotropic mixtures: Environmental assessment and Optimization

Basalt Fiber Reinforced Concrete: A Compressive Review on Durability Aspects

Utilization of Bitumen Modified with Pet Bottles as an Alternative Binder for the Production of Paving Blocks

Shear strength of FRP reinforced deep concrete beams without stirrups: Test database and a critical shear crack-based model

Integration of wind turbine with biomass-fueled SOFC to provide hydrogen-rich fuel; economic and CO2 emission reduction assessment

Computational fluid dynamics simulation of a designed envelop contenting phase change material and imposed solar heat flux and ambient air

Testing and modeling methods to experiment the flexural performance of cement mortar modified with eggshell powder

Performance characteristics of cementitious composites modified with silica fume: A systematic review

Multi-criteria evaluation and optimization of a new multigeneration cycle based on solid oxide fuel cell and biomass fuel integrated with a thermoelectric generator, gas turbine, and methanation cycle

A worldwide development in the accumulation of waste tires and its utilization in concrete as a sustainable construction material: A review

Optimization of Graphene Oxide Incorporated in Fly Ash-Based Self-Compacting Concrete

Feasibility Study on Concrete Made with Substitution of Quarry Dust: A Review

Performance evaluation of fiber-reinforced concrete produced with steel fibers extracted from waste tire

A Review on Failure Modes and Cracking Behaviors of Polypropylene Fibers Reinforced Concrete

Incorporation of Silica Fumes and Waste Glass Powder on Concrete Properties Containing Crumb Rubber as a Partial Replacement of Fine Aggregates

Performance of Strengthened, Reinforced Concrete Shear Walls with Opening

Parametric Study on the Behavior of Steel Tube Columns with Infilled Concrete An Analytical Study

Evaluating Shear Strength of Light-Weight and Normal-Weight Concretes through Artificial Intelligence

Basalt Fibers Reinforced Concrete: Strength and Failure Modes

Optimal Design of Semirigid Connection Steel Frame with Steel Plate Shear Walls Using Dolphin Echolocation Algorithm

A Review on Strength and Durability Properties of Wooden Ash Based Concrete

Mechanical, Durability, and Microstructural Evaluation of Coal Ash Incorporated Recycled Aggregate Concrete: An Application of Waste Effluents for Sustainable Construction

Improvement in Bending Performance of Reinforced Concrete Beams Produced with Waste Lathe Scraps

Effects of Size and Flexural Reinforcement Ratio on Ambient-Cured Geopolymer Slag Concrete Beams under Four-Point Bending

Comparative Study on the Behavior of Reinforced Concrete Beam Retrofitted with CFRP Strengthening Techniques



A Review on Sustainable Concrete with the Partially Substitutions of Silica Fume as a Cementitious Material Two-Way Shear Resistance of FRP Reinforced-Concrete Slabs: Data and a Comparative Study Concrete Made with Iron Ore Tailings as a Fine Aggregate: A Step towards Sustainable Concrete Mechanical, Durability and Microstructure Analysis Overview of Concrete Made with Metakaolin (MTK) The Mechanical Behavior of Sustainable Concrete Using Raw and Processed Sugarcane Bagasse Ash Performance of concrete reinforced with jute fibers (natural fibers): A review Coupled Effect of Polypropylene Fibers and Slag on the Impact Resistance and Mechanical Properties of Concrete Development of Machine Learning Models for Reliable Prediction of the Punching Shear Strength of FRP-reinforced Concrete Slabs without Shear Reinforcements Overview of Concrete Performance Made with Waste Rubber Tires: A Step toward Sustainable Concrete Influence of loading method and stiffening on the behavior of short and long CFST columns Flexural Strength Prediction of Steel Fiber-Reinforced Concrete Using Artificial Intelligence Concrete Made with Partially Substitutions of Copper Slag (CPS): A State Art of Review Evaluation of Axial Compression Slenderness Limits of High and Ultra-High-Strength Steel Circular Hollow Sections Enhanced Reliability Method for the Two-Way Shear Provisions of the European Code for Lightweight Concrete Glass Fibers Reinforced Concrete: Overview on Mechanical, Durability and Microstructure Analysis A Comprehensive Review on the Ground Granulated Blast Furnace Slag (GGBS) in Concrete Production Evaluate Effect of Various Parameters on the Shear Strength of FRP-Reinforced Concrete Beams with or Without Stirrups Extended Critical Shear Crack Theory for Punching Shear of Lightweight, FRP-Reinforced, or Prestressed Concrete ANN Model for Two-Way Shear Capacity of Reinforced Concrete Slabs Without Shear Reinforcements A Scientometric Review on Mapping Research Knowledge for 3D Printing Concrete Concrete Reinforced with Sisal Fibers (SSF): Overview of Mechanical and Physical Properties A Step towards Sustainable Concrete with Substitution of Plastic Waste in Concrete: Overview on Mechanical, Durability and **Microstructure Analysis** Data Driven Appraisal for One-way and Two-way Shear Design of Lightweight Concrete and FRP-reinforced Concrete Elements Reliability-Based Evaluation of Two-way Shear Design Reinforced Concrete Slabs with FRP Reinforcements Artificial intelligence-based estimation of ultra-high-strength concrete's flexural property Compressive Strength of Steel Fiber-Reinforced Concrete Employing Supervised Machine Learning Techniques Mechanical Properties of Hybrid Steel-Polypropylene Fiber Reinforced High Strength Concrete Exposed to Various Temperatures Experimental Investigations of the Behavior of Stiffened Perforated Cold-Formed Steel Sections Subjected to Axial Compression Reliability-based assessment and optimization for the two-way shear design of lightweight reinforced concrete slabs using the ACI and EC2 The Novelty of Using Glass Powder and Lime Powder for Producing UHPSCC Compressive Strength Evaluation of Ultra-High-Strength Concrete by Machine Learning A Machine Learning Model for Torsion Strength of Externally Bonded FRP-Reinforced Concrete Beams Shear strength of lightweight and normal-weight concrete slender beams and slabs: An appraisal of design codes Using Artificial Intelligence Techniques to Predict Punching Shear Capacity of Lightweight Concrete Slabs A mechanical and simplified model for RC elements subjected to combined shear and axial tension Punching Shear Strength of FRP-Reinforced Concrete Slabs without Shear Reinforcements: A Reliability Assessment Evaluation of the Strength of Slab-Column Connections with FRPs Using Machine Learning Algorithms



Punching shear strength and deformation for FRP-reinforced concrete slabs without shear reinforcements

Exploring Effect of In-plane Tensile Forces on the Two-way Shear Strength: review, comparative study and future works

Refining the torsion design of fibered concrete beams reinforced with FRP using multi-variable non-linear regression analysis for experimental results

Design of lightweight concrete slabs under two-way shear without shear reinforcements: a comparative study and a new model

Strength and Ductility of Lightweight Reinforced Concrete Slabs under Punching Shear

Investigating the Behavior of Lightweight Foamed Concrete T-Beams under Torsion, shear, and Flexure

Experimental and numerical in-vestigation of the behavior of LWFC L-girders under combined torsion

Performance of Steel Fiber Reinforced Concrete Corbels

Behavior of stiffened and unstiffened CFT under concentric loading, An experimental study

Exploring the potential of agricultural waste as an additive in ultra-high-performance concrete for sustainable construction: A comprehensive review

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Thermal enhancement of a heat exchanger of engine via U-cut and V-cut zigzag strip turbulator combined with bubble injection method

Designing of NiMn-MOF@MXene nanorods@AC@NF electrode material for high performance electrochemical based energy storage devices

Effect of Severe Environment and radiation on the behavior of Cementitious Materials Modified by CKD and GBFS

Chapter :