

SUBJECT INDEX

A

ARMA see Autoregressive moving average	
Advising process--design and implementation	ELE 9119
Agroforestry crop--Ipil-ipil	EGY 8601
Algebra, Complex--Mechanism analysis	MEC 8906
Algorithm method--Static relays	ELE 8710
Anaerobic digestion	EGY 9213
Anaerobic process	ENE 8204
Angat multi-purpose reservoir	CIV 8722
Anisotropy, Cross--Finite element method	CIV 8407
Annealing process, Batch--Steelmaking	CHE 9107
Atkinson engine mechanism	MEC 8605
Atmospheric transport-- Power plant	ENE 8509
Automated tellers--Computer networks	ELE 9117
Automation--Industrial applications	IND 9106
Autoregressive moving average	CIV 8727
	CIV 8730, CIV 8833
Autoregressive moving average--Water resources system	CIV 8722
Axial forces on rigid frames	CIV 9151
Axisymmetric stress analysis	CIV 8410

B

Baguio--Solid waste disposal	ENE 8508
Basin variables--interrelationship	CIV 9045
Binary decision tree and algorithm	ELE 8608
Biogas production from wastes	CHE 9107
Biomass conversion--Corncobs	MEC 8201
Biomass conversion--Energy source	MEC 8303
Biomass conversion--Rice hulls pyrolysis	CHE 8603
Biomass conversion--Sugar utilization	CHE 8905
Biomass fuel--Gasification	EGY 9111
Biomass gasification	EGY 8909
Black liquor treatment	ENE 8204
Boundary element method	CIV 8732
Boundary element method-- Elastostatic problems	CIV 8513

Boundary solution procedures--Elastostatics	CIV 8720
Bragg's law	ELE 8815
Bridges, Medium span	CIV 8729
Buckling--Bridge towers	CIV 8729
Buckling--Rigid frames	CIV 9151
Budget allocation model-- U.P. Diliman	IND 9004
Building frames--Computer applications	CIV 8305
Building frames--Dynamic response	CIV 8411
Building frames--Structural analysis	CIV 9149
Building structure--Wind speed specifications	CIV 8619
Buildings--Foundation analysis	CIV 9253
Buildings, Multi-story-- Design	CIV 9255
Buildings, Multi-story-- Floor lateral forces	CIV 8731
Buildings, Multi-story-- Lateral force requirements	CIV 8726
Buildings, Multi-story--Loading resistance	CIV 8411
	CIV 9048
Buildings, Reinforced concrete--Shear wall analysis	CIV 8515

c

Cable-stayed bridges	CIV 8729
Capacitors--Voltage sensitive	ELE 8001
Carbon steel--Hardening	MEM 9107
Catchments unit hydrograph	CIV 9045
Catchment's water balance	CIV 8837
Cebu diesel--Thermal and gas turbine power plants	ENE 9213
Chromite--Industrial applications	MEM 8301
Clay, Bangkok--Soil consolidation	CIV 8303
Clays and sands--Manila	CIV 8836
Clearness number-- ² Solar radiation	MEC 8302
Coal fragmentation--Fluidization	EGY 8806
Coconut oil--Pyrolytic conversion	CHE 8101
Coconut timber--Structural performance	CIV 8838
Coconut wood--Structural material	CIV 9254
Coir dust--Physical pretreatment	CHE 8704
Combustion chamber geometry	EGY 8910
Comminution	MEM 8502
	MEM 8906
Complex six-bar mechanism	MEC 8906
Compression ignition engine--Design	EGY 8910
Computer-aided design--Building structure	CIV 8305
Computer-aided logic synthesis	ELE 8609
Computer program--Binary decision--Switching	CIV 8609
Concrete--Flexural behaviour	CIV 8618

Concrete, Reinforced and prestressed	CIV 8618
Concrete beams, Reinforced--Flexural behavior	CIV 8835
Concrete buildings, Reinforced--Dynamic analysis	CIV 8731
Concrete frame structures--Reinforced	CIV 8305
Connections, Rigid and Semi-rigid	CIV 8516
Construction material--Rattan	CIV 9047
Corncoobs--Gasification	MEC 8201
Couplings--Finite element and boundary solution methods	CIV 8720
Cryptosystem	ELE 8204
Current transmission, Alternating	ELE 8816
Cylindrical shells--Finite element method	CIV 8410

D

Dagupan City--Buildings-- Foundation analysis	CIV 9253
Data security--Communication system	ELE 8204
Diesel engine fuel--Consumption prediction	EGY 8803
Digestion--Batch and high rate	EGY 9213
Digital systems--Design	ELE 8609
Direct sequence spread spectrum	ELE 8814
Discriminant analysis--Waste utilization	CHE 9106
Drastic system--groundwater analysis	ENE 9214
Driscoll's procedure--Building design	CIV 9255
Dynamic programming--Production planning	IND 8502

E

Earth structures, Reinforced	CIV 8302
Earthquake acceleration-time histories	CIV 8943
Earthquake analysis--Computer applications	CIV 8834
Earthquake simulation program	CIV 8834
Economic dispatch	ELE 8816
Economic dispatch--Electricity	ELE 8203
Educational system--Engineering	IND 8903
Elasto-plastic analysis--Load resistance	CIV 8941
Elastostatics--Finite element method	CIV 8720
Electric Distribution system planning	ELE 8406
Electric power system--Reliability	ELE 9118
Electricity consumption--Refrigerator	EGY 8702
Electronic communication system	ELE 8204
Electronic data processing--Automated tellers	ELE 9117
Energy consumption	EGY 9112
Energy demand projection--Nepal	EGY 9112
Energy power resources--Biomass conversion	MEC 8201

Energy resources--Biomass production	CHE 9107
Energy resources, Alternative--Solar	MEC 8302
Energy resources, Alternative--Waste products	MEC 8303
Energy resources, Non-conventional	EGY 8807
Engineering schools--Quality education	IND 8903
Engineering word processor--Design and construction	ELE 8507
Environmental degradation	ENE 9213
Equivalent lateral force procedure--Buildings	CIV 8726
Ethanol production--Feed molasses concentration	CHE 8905
Expert systems, Knowledge-based	CIV 9152
Exploratory boring	CIV 8517

F

Fatigue failure--Concrete	CIV 9046
Fault tree analysis--PNPP I	NUC 8405
Ferrocement--Design and construction	CIV 9257
Fiberglass--Mechanical and structural properties	CIV 8514
Finite element analysis--Coupled shear walls	CIV 8409
Finite element analysis--Plasticity	CIV 8721
Finite element analysis--Shear walls	CIV 9048
Finite element analysis--Soils	CIV 8407
Finite element method--Elastic cylinder	CIV 8410
Finite element method--Plastic behavior	CIV 8941
Finite element method--Plate bending analysis	CIV 8839
Finite element method--Shear walls	CIV 9150
Finite element method--Vertical cylindrical shells	CIV 8940
Fixed charge generalized network problem	ELE 8406
Flood control--Design and structure	CIV 8723
Flood peak estimation--Indonesia	CIV 9044
Floor slabs and shear walls	CIV 9150
Flotation method--Chromite recovery	MEM 8301
Flotation test--Manganese recovery--Palawan	MEM 8805
Fluidized bed combustor--Coal	EGY 8806
Forecasting	ELE 8305
Forecasting, Real-time	CIV 8833
Forecasting streamflow	CIV 8727
Forecasting water inflows	CIV 8722
	CIV 8730
Foundation systems--Structural analysis	CIV 9253
Frame analysis, Non-prismatic--Computer applications	CIV 8408
Frames, Rigid--Buckling strength	CIV 9151

Fuel alternative--Gasoline for diesel engine	MEC 8404
Fuel consumption--Computer simulation	EGY 8803
Fuel-Air mixing	EGY 8910
Fuel source--Ipil-ipil	EGY 8601
Fuel substitution model--Nepal	EGY 9112

G

Gas--Diffusion	MEM 8703
Gas hold-up--Hydrodynamics of bubble column	CHE 8502
Gaseous dispersion--Power plant	ENE 8509
Gasifier, Downdraft	EGY 8909
Gasifier, Downdraft--Grate position	EGY 9111
Gasoline as diesel engine fuel	MEC 8404
Geomorphic parameters and streamflow relationship	CIV 8723
Geotechnical information--Soil mechanics	CIV 8306
Geotechnical information system	CIV 8517
Geothermal power plants--Interconnection	ELE 8813
Glass reinforced plastics see Fiberglass	
Gold mining--Davao Del Norte	ENE 8810
Grinding media--Comminution	MEM 8502
	MEM 8906
Groundwater pollution--Metro Manila	ENE 9214

H

High voltage direct-current	ELE 8816
Human activities--Interrelationships	ENE 8407
Hybrid element--Shear walls--Frame structures	CIV 8515
Hydraulic loading rate	ENE 8203
Hydro power plant system--Mindanao	CIV 8725
Hydrodynamics--Bubble column	CHE 8502
Hydrology, Synthetic--Streamflow modeling	CIV 9256
Hydrothermal power system	EGY 8804

I

Industrial solvents--Coconut oil products	CHE 8101
Inservice inspection--Power plant maintenance	NUC 8101
Ipil-ipil--Alternative energy source	MEC 8303
Ipil-ipil wood--Drying	EGY 8601
Ipil-ipil wood--Gasification	EGY 9111
Irrigation system--Planning and design	CIV 8724

K

Kalman filtering technique	CIV 8833
Kinematic analysis	MEC 8906
Kinematic analysis of mechanisms	MEC 8605

L

La Trinidad--Solid waste disposal	ENE 8508
Laguna de Bay--Water analysis	ENE 9111
Laterite, High-iron	MEM 8704
Lattice girder reinforcement--Concrete beam	CIV 8835
Leyte-Samar power grid interconnection	ELE 8813
Linear elastostatic analysis	CIV 8513
Linear equations--Structural analysis	CIV 8728
Load energy--Forecasting	ELE 8305
Low cost housing--Coconut wood	CIV 8838
Low cost housing--Wood cement composite	CIV 9254

M

Maintenance and operating expenses--Budget	IND 9004
Maintenance scheduling	ELE 8712
Manganese--Industrial applications	MEM 8805
Manila soils and subsoils	CIV 8306
Marikina river--Water quality	ENE 8305
Materials (Engineering)--Synthetic plastics	CIV 8514
Matrix structural analysis	CIV 8727
Microconcrete beams--Load resistance	CIV 9046
Mindanao power system--Optimization	CIV 8725
Mineral dressing	MEM 8906
Mining industry, Small-scale	ENE 8810
Minolin's shell plate theory--Vertical cylindrical shells	CIV 8940
Modal analysis procedure--Buildings	CIV 8726
Moment-Rotation relationship	CIV 8516
Mosques--Design and construction	CIV 9257
Mussels contamination	ENE 8202

N

Nepal--Energy supply and demands	EGY 9112
Nickel--Industrial applications	MEM 8704
Nonlinear analysis--Concrete	CIV 8618

Nonlinear deformation--Building structures	CIV 8411
Non-prismatic members--Analysis	CIV 8408
Nuclear medicine instrumentation maintenance and problems	NUC 8203
Nuclear power plant--Operation--Critical condition	NUC 8506
Nuclear radiation--PNPP I	NUC 8304
Nuclear reactor core--Critical condition	NUC 8506

O

Optimal hydrothermal dispatch	EGY 8804
Optophone	ELE 8202

P

P-Delta effects--Buildings--Structural analysis	CIV 9149
Philippine nuclear power plant	ENE 8509
Philippine nuclear power plant--Reliability & safety	NUC 8101
	NUC 8102, NUC 8304
	NUC 8405, NUC 8507
Pile-Soil interface	CIV 8942
Plastic analysis	CIV 8941
Plastic design--Building construction	CIV 9255
Plasticity constitutive routines	CIV 8721
Pore structure model--Gas diffusion	MEM 8703
Power source supply--Hydrothermal	EGY 8804
Power supply--Generator plants--Cost	ELE 8203
Power system--Mindanao	CIV 8725
Production automation	IND 9106
Production planning	IND 8502
Production-Price fluctuation--Sugar	IND 8401
Production programming model	IND 8502
Programmable controllers--Switching	ELE 8608
Programmable logic array	ELE 8609
Public transit central terminal--Loading and unloading	CIV 8108

R

Radioactive releases--Analysis	NUC 8102
Radioactive releases--PNPP-I	NUC 8304
Rapid stream hydrolysis and autohydrolysis--	

Bioconversion process	CHE 8704
Rattan--Reinforcement material	CIV 9047
Reactive loss minimization	ELE 8001
Reading devices for the blind	ELE 8202
Rectangular plate bending	CIV 8839
Refrigerator--Thermal load and electricity use	EGY 8702
Refuse collection system--Iloilo city	ENE 8306
Reinforced earth	CIV 8302
Relays, Digital impedance	ELE 8710
Reliability--Optimization	ELE 9118
Realibility of structures	CIV 8412
Rice hulls--Alternative energy source	MEC 8303
Rice hulls--Pyrolysis data	CHE 8603
Rock mechanics--Elastostatics analysis	CIV 8732

S

Scheduling--Automated technique	ELE 8712
Shake (Computer program)--Soil analysis	CIV 8836
Shear wall analysis--Load resistance	CIV 8515
Shear walls--Elastoplastic analysis	CIV 000
Shear walls, Coupled--Dynamic behavior	CIV 8409
Shot noise models--Streamflow modeling	CIV 9256
Signal detection--Trouble shooting	ELE 8711
Slab-coupled structures--Design and analysis	CIV 9150
Soil consolidation	CIV 8303
	CIV 8407
Soil engineering	CIV 8517
Soil engineering--Bangkok clay	CIV 8303
Soil engineering--Dynamic response	CIV 8836
Soil engineering--Evaluation	CIV 8306
Soil engineering--Seismic effects	CIV 8304
Soil mechanics--Statical analysis	CIV 8942
Soils--Dynamic properties	CIV 8304
Solar energy source	EGY 8807
Solar energy utilization	MEC 8302
Solid waste collection scheme--Computer simulation	ENE 8306
Solid waste management	ENE 8508
Solid waste management plan--U.P. Diliman	ENE 8101
Solidification and stabilization--Waste management	ENE 9112
Source term--Radioactive releases	NUC 8102
Spent fuel cooling process--PNPP-I	NUC 8507
Sponge iron--Gas diffusion	MEM 8703
Spread spectrum/data modulation system--Design	

and construction	ELE 8814
State-Space technique	CIV 8833
Static indeterminacy	CIV 8412
Steel, High strength--Building construction	CIV 9255
Stochastic modeling	CIV 9727
	CIV 8943
Streamflow analysis	CIV 9045
Streamflow modeling	CIV 9256
Stress and strains--Elastostatic analysis	CIV 8513
Structural analysis--Expert systems	CIV 9152
Structural design--Plate bending	CIV 8839
Structural engineering	CIV 8728
Structural frames--Buildings P-Delta effect	CIV 9149
Structural safety	CIV 8943
Structural stress analysis	CIV 8412
Student advising--Electrical engineering	ELE 9119
Sugar by-products--Ethanol concentration	CHE 8905
Sugar industry--Price-Production fluctuation	IND 8401
Sulfide ore processing--Comminution	MEM 8502
Sulfide ore processing--Electrochemistry	MEM 8906
Surface drainage discharge--Analysis	CIV 8724
Surface storage infiltration and baseflow model	CIV 8837
Suspension-bubble column--Contactor-- Hydrodynamics	CHE 8502
Swine waste--Physical and bacterial pretreatment	CHE 9107
Swine waste--Solid-Liquid fractions	EGY 9213
Synthetic unit hydrograph--Indonesia	CIV 9044
System dynamics--Sugar production	IND 8401

T

Thermal storage system	EGY 8808
Thermodynamics	EGY 8808
Time series analysis	CIV 8727
Traffic problem--Loading and unloading congestion	CIV 8101
Trickling filter theory	ENE 8203
Troubleshooting technique	ELE 8711
Truss frame	CIV 8838

U

Updraft-stratified downdraft gasifier	EGY 8909
Upper Pampanga river integrated irrigation systems	

--Drainage problem

CIV 8724

V

Vacant area inference--Forecasting	ELE 8305
Varactors	ELE 8001
Vector linkage constraint method	MEC 8605
Vehicle operating cost reduction	CIV 8101
Venmar turbine--Wind energy	EGY 8805
Vertical cylindrical shells--Dynamic characteristics	CIV 8940
Visoactor	ELE 8202
Visotoner	ELE 8202
Vortex wind machine--Wind energy	EGY 8805

W

Warping	CIV 9150
Waste generation--Cebu	ENE 9213
Waste treatment--Immobilization	ENE 9112
Waste utilization value--Classification	CHE 9106
Wastes--Classification	CHE 9106
Wastes, Hazardous and toxic--Disposal	ENE 9112
Water balance evaluation	CIV 8837
Water contamination--Copper and zinc	ENE 8202
Water pollution--Laguna de Bay	ENE 9111
Water pollution--Metal contamination	ENE 8202
Water pollution--Wastewater treatment	ENE 8204
Water quality--Oxygen analysis	ENE 8305
Water quality index	ENE 9111
Water resources, Multi purpose--ARMA model	CIV 8722
Water resources development--Irrigation	CIV 8724
Water resources management	CIV 8730
Water resources planning	CIV 8837
Westinghouse pressurized water reactors	NUC 8506
Wind energy--Agricultural applications	EGY 8805
Wind load--Design of structure	CIV 8619
Wood cement composite board	CIV 9254
Word processor system	ELE 8507
World system model	ENE 8407

X

X-ray diffraction data

ELE 8815