

Author Index

- Aref, A., 209
- Baru, C., 225
Bradford, M.A., 169
Brencich, A., 47
Bull, J.W., 187
- Casciati, F., 319
Chin, C.S., 131
- Elgamal, A., 225
Erkmen, R.A., 169
Evans, B.J., 27
- Filiatrault, A., 209
Fowler, K., 225
Frangopol, D.M., 1
Fuggini, C., 319
- Gurav, O., 187
- Hassan, O., 27
- Izzuddin, B.A., 243
- Jones, J.W., 27
- Krishnan, S., 225
- Li, Z., 103
Lourenço, P.B., 77
Love, P.E.D., 389
- Malafaya-Baptista, M., 353
Marques, R., 77
Mendes, N., 77
Morgan, K., 27
Mota, L., 149
- Náprstek, J., 293
- Okasha, N.M., 1
- Palmeri, A., 267
- Rebelo, C., 149
Remaki, L., 27
- Schafer, B.W., 103
Sideris, P., 209
Simões da Silva, L., 149
Smith, I.F.C., 375
- Tadepalli, T.P., 225
Turk, Ž., 413
- Van Den Einde, L., 225
- Woodford, C.H., 187
- Xiao, R.Y., 131

Keyword Index

- additional internal variable, 267
- aerodynamic design, 27
- aluminium Eurocode, 187
- assessment, 47
- auto-parametric systems, 293
- availability, 1

- boundary conditions, 103
- bridge systems, 209
- buckling, 187

- cable beam, 267
- climate change, 413
- collaboratory, 225
- component method, 149
- composite beams, 169
- computational tools, 1
- constrained finite strip method, 103
- construction, 389, 413
- curved beams, 169
- cyberinfrastructure, 225
- cyclic, 149

- data mining, 375
- design, 389
- double pipe network, 353
- dynamic analysis, 169
- dynamic stability, 293
- dynamics of structures, 267

- earthquake engineering, 77, 225
- elastic buckling analysis, 103
- energy dissipation, 267
- entropic flow pattern, 353
- errors, 389

- fibre reinforced concrete, 131

- finite element analysis, 47
- finite element method, 103
- finite strip method, 103
- flexibility-based element, 209
- full-scale tests, 319

- genetic algorithms, 1
- geometric non-linearity, 169
- global positioning system, 319

- hysteretic behaviour, 149

- information technology, 225, 413
- internal resonance, 293

- Laguerre's polynomial approximation technique, 267
- learning, 389
- life-cycle, 1
- lifetime functions, 1
- limit analysis, 47
- load carrying capacity, 47
- long duration records, 319

- macro-element, 209
- maintenance, 1
- masonry structures, 47, 77
- modal strain energy method, 267
- model-based reasoning, 375
- moving loads, 169
- multi-criteria optimization, 1
- multi-storey buildings, 243

- NEES, 225
- NEESit, 225
- non-linear analysis, 77, 187
- non-linear finite element modelling, 131

non-linear vibration, 293
numerical modelling, 209
numerical scheme, 267

parallelisation, 27
partial interaction, 169
performance measures, 1
pipe failure, 353
pipe resizing, 353
principle of virtual forces, 209
progressive collapse, 243
push-over methods, 77

quasi-static analysis, 209

real time, 319
redundancy, 1
relaxation function, 267
reliability, 375
research agenda, 413
rework, 389
robustness, 243

segmental systems, 209
seismic, 149, 225
semi-trivial solution, 293
service limit state, 47
shell analysis, 187
state-space formalism, 267
steel joint, 149
structural design, 243
structural dynamics, 319
structural health monitoring, 319
structural identification, 375
structural model, 47
supersonic flow, 27
system dynamics, 389
system performance indicators, 353

transition matrix, 267

unstructured mesh, 27

vibration analysis, 267
viscoelastic damping, 267

World Land Speed Record, 27



