

Author Index

Baratta, A., 255
Bathe, K.J., 1
Bousias, E., 345

Eyheramendy, D., 61

Filelis-Papadopoulos, C.K., 191

Geiser, J., 157
Gentsch, W., 41
Gravvanis, G.A., 191

Kaczmarczyk, L., 135
Kaveh, A., 305
Kolařík, F., 291

Lejeunes, S., 61
Lepš, M., 325

MacKenzie, R., 135
Mackie, R.I., 89
Massoudi, M.S., 305
Milani, G., 111
Muscolino, G., 223
Myšáková, E., 325

Patzák, B., 291
Pearce, C.J., 135
Pospíšilová, A., 325

Saad, R., 61
Sextos, A., 345
Sofi, A., 223

Taskari, O., 345

Zeman, J., 291
Zhang, L., 61

Keyword Index

- automatic programming, 61
- CAE, 41
- cloud computing, 41, 89
- collapse loads, 111
- component oriented, 89
- configurational mechanics, 135
- constrained design spaces, 325
- cost model, 41
- design of experiments, 325
- deterministicstochastic splitting, 157
- discontinuities, 255
- distributed computing, 89, 345
- distributions, 255
- DNA structures, 1
- earthquake engineering, 345
- eigenvalue problems, 1
- explicit and implicit methods, 1
- finite difference method, 191
- finite element force method, 305
- finite elements, 1, 61, 89
- fracture, 135
- fresh concrete flow, 291
- full approximation scheme, 191
- generalized approximate sparse inverses, 191
- graph theory, 305
- hexahedron element, 305
- high performance computing, 41
- homogenization, 111, 291
- hp-refinement, 135
- HPC as a Service, 41
- HPC Cloud, 41
- hybrid testing, 345
- impulsive dynamics, 255
- inexact Broyden's method, 191
- inexact Jacobian-free Newton-multigrid, 191
- inexact Newton's method, 191
- interval field, 223
- isogeometric analysis, 61
- iterative splitting, 157
- Java, 61
- Krylov accelerated multigrid methods, 191
- large eigenvalue problems, 1
- limit analysis, 111
- lower and upper bounds, 223
- masonry, 111
- MITC elements, 1
- modelling of proteins, 1
- multi-grid method, 191
- multi-scale methods, 157
- multi-scale spitting, 157
- non-linear partial differential equations, 191
- non-linear range, 111
- non-Newtonian fluids, 291
- non-regular functions, 255
- null basis matrix, 305
- object-oriented, 89

object-oriented programming, 61

parallel processing, 89

private cloud, 41

public cloud, 41

random field, 223

rational series expansion, 223

rectangular element, 305

reliability-based design optimization, 325

security, 41

service-oriented, 89

shells, 1

small and medium enterprises, 41

software licensing, 41

space-filling, 325

structural mechanics, 255

surrogate models, 325

symbolic computations, 61

tetrahedron element, 305

transient dynamics, 1

transport problems, 157

triangular element, 305

UberCloud experiment, 41

uncertain flexibility, 223

unilateral behaviour, 255

updating, 325

upper and lower bound theorems, 111

variability response function, 223

