

# Author Index

Agranovich, G., 191  
Augarde, C.E., 285

Becker, A.A., 209  
Bursi, O.S., 119

Chandra, S., 63

Dhayanidhi, J., 63  
Díaz-Domínguez, P., 85

Ferrario, F., 119

García-Palacios, J., 85  
Grierson, D.E., 37

Kwan, A.S.K., 149

Lefeuve Mesgouez, G., 315  
Le Houédec, D., 315

Marti, K., 171

Picoux, B., 315

Ribakov, Y., 191

Saka, M.P., 237  
Samartín, A., 85

Topping, B.H.V., 1



# Keyword Index

- abnormal loading, 37
- artificial intelligence, 1
- Bouc-Wen model, 119
- boundary element method, 209
- browsers, 63
- buildings, 37
- cable structures, 149
- composite member, 119
- construction engineering, 1
- contact, 209
- creep, 209
- damage, 119
- degradation, 119
- design, 85
- finite element analysis, 63, 285
- finite element methods, 1
- friction, 209
- genetic algorithms, 1, 237
- geometric nonlinearity, 149
- geotechnical engineering, 1
- high performance computing, 1
- historical overview, 37
- hysteretic behaviour, 119
- internet, 1
- inverse methods, 209
- knowledge based engineering, 63
- literature review, 37
- low-cycle fatigue, 119
- mathematical programming, 237
- membrane structures, 85
- mixed formulation, 119
- moving loads, 315
- multidirectional reinforcement, 85
- neural networks, 1
- non-linear analysis, 85
- numerical models, 285
- numerical simulation, 315
- OOPS, 63
- optimal design under stochastic uncertainty, 171
- optimal plastic design, 171
- optimal structural control, 191
- optimality criteria, 237
- parametric optimization, 191
- PDM, 63
- performance index, 191
- personal computers, 1
- phenomenological models, 63
- plastic analysis, 171
- prestressed mechanisms, 149
- progressive collapse, 37
- railway traffic, 315
- recent research, 37
- reinforced concrete, 85
- robust optimal design, 171
- SCL, 285
- shell structures, 85
- skeleton structures, 237
- smearred crack formulation, 119
- soil-structure interaction, 315
- stochastic linear programming, 171
- stochastic optimization methods, 171
- structural analysis, 1

structural design, 1, 63  
structural optimization, 1, 237  
structural seismic behavior, 191

tacit knowledge, 63  
tunnelling, 285

velocity and acceleration feedback, 191  
verification, 85

water engineering, 1  
wave propagation, 315

