



Table of NAFEMS Publications

This Table gives a quick guide to all the NAFEMS publications, using the same Topic headings and sub-headings as in earlier chapters. The columns describe the type of report, as either texts and general reports, benchmark reports, case studies, workbooks, seminar proceedings or conference proceedings.

In the “Text and Report” category, publications have been graded as easier, medium, or harder depending on the complexity of the contents. Similarly, benchmarks have been graded as easier or harder to reflect the complexity of the problems described.

Topics	Texts and Reports			Benchmarks		Case Studies/ Wrkbks	Seminar/ Conf'ce Proc'gs
	basic (+easy How To's)	medium (+harder How To's)	advanced	easier	harder		
Software Usage:							
- Computer Aided Design	HT09 HT13 HT31 HT38 R0098						
- STEP standard	HT09	HT12					
- finite element general usage	HT0 HT01 HT02 HT03 HT05 HT06 HT31 R0098	GDS					
- pre- and post-processing	HT04 HT08	GDS HT07		R0001			
- finite element method		HT28	FEP				
- boundary element method		HT29					
Elastic Stress Analysis:							
- general		R0091	FEP R0018				
- set of general benchmarks				P07 P08 P18 R0006	P05	R0019 R0078 R0086	
- beams			FEP HT34				
- plates			FEP HT34	P07 P08 P18 R0006	P05 R0089		
- shells			FEP HT34 P12	P04 P07 P08 P18 R0006	P05 R0089		
- composites	HT25	R0091		R0031	R0003 R0084 R0092 R0093		
- hierarchical elements	P13						
- element performance and shape sensitivity	FEP P11 P14	HT07 HT28		P01 P08 R0012			
Thermal Analysis		HT14		P16 P18 R0006			
Thermal Stress Analysis				P02 P07 P08 P18 R0006 R0031	P05		

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Fracture Mechanics:							
- general		HT17 HT18	R0018				R0051 R0073
- LEFM		HT17 HT18	R0018 R0095	R0014 R0020	R0028		
- PYFM		HT18	R0018		R0038		

Dynamics:							
- general			FEP R0017 R0095				
- free vibrations and natural frequencies			FEP R0017	P09 P18 R0015			
- forced vibrations			FEP R0017		R0016 R0034 R0034(S)		
- damping		HT36 R0085	FEP R0017 R0021 R0023				
- acoustics	HT10				R0083		
- seismic analysis		HT36					

Non-Linear Behaviour:							
- general	HT11 HT21	HT19 R0072 R0080	FEP R0018				R0050
- material non-linear, general	HT21	HT19 R0072 R0080 R0091	FEP R0018		P15	R0008	
- creep	HT21	HT19 R0072 R0080 R0091	R0018	R0026 R0027 R0030 R0049			
- plasticity		HT19 R0072 R0080 R0091	R0018 R0095	P06 R0026 R0030 R0049			
- visco-elasticity	HT21	HT19 R0080 R0085	HT30 R0018				
- geometric non-linearity		HT19 R0072 R0080	FEP R0018 R0095	P03 R0065	P10 R0009 R0010 R0024 R0029		
- contact analysis	HT15	HT19 R0025 R0072	R0018		R0081 R0094		R0022
- explicit solution scheme		HT19 R0080 R0085	FEP R0018 R0095				
- geotechnical analysis		HT27					

Fatigue		HT17 HT18	R0018				
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Design Code links	R0075	R0071					
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Design Optimisation	HT20						
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Probabilistic Finite Element Analysis		HT37					
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Adaptive Structural Systems							R0068
Electromagnetic Analysis	HT39						
CFD:							
- general	HT22 HT23 HT24 HT26 R0063 R0079					R0069 CFDJ1 CFDJ2 CFDJ3 CFDJ4 CFDJ5 CFDJ6 CFDJ7 CFDJ8	R0074
- smoke movement analysis		HT35					
Multi-Physics Analysis		HT33					
Projects:							
- GEM	R0042 R0047 R0048	R0043 R0044 R0045 R0046					
- SAFESA	R0039 R0040	R0041					
- FENET	QAIC10A	R0088 R0089			R0094		
- AUTOSIM		R0097					
- Management of data (including STEP)	R0061 R0082 R0096	R0007	R0005				
- Management of finite element analysis	HT31	GDS R0033					
- Quality systems and management	NAFRA HT31 R0013	QSS001 R0064 R0099					
- Surveys	R0060						
- Verification and Validation	L001						
International Conferences							QAIC2 QAIC3 QAIC4 QAIC5 QAIC6 QAIC7 QAIC8 QAIC9 QAIC10 QAIC11 QAIC12

Symbols:

S = Summary report

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