CONTENT

Forewo	ord	v
1.	The Application of Stress, Noise and Vibration Analysis to Design of Rail Rapid Transit	1
2	vehicles	1
2.	Finite Element Stress Analysis as an Aid to the Design of Automotive Components	21
3.	Static Analysis of a Light Truck Frame Using the Finite Element Method	47
4.	Finite Element Study of a Cast Iron Flywheel with Particular Emphasis on Stress	75
-	Concentrations	75
5.	Application of the Finite Element Method to the Design of Disc-type Wheels	91
6.	Photoelasticity Applied to Complicated Diesel Engine Models	111
7.	Torsional Design Aspect of Long Wheelbase Vehicles	123
8.	Noise Reduction of Large Earthmoving Vehicles	149
9.	Automobile Drive-Line Vibration and Internal Noise	165
10.	Noise Generated at the Tyre-Road Interface	181
11.	Control of Noise from Conventional Diesel Engines	201
12.	The Effect of Environmental Conditions on the Noise Level of Cooling Fans in Vehicles	217
13.	A Vibrational Analysis of a Pin-Disc System with Particular Reference to Squeal Noise in	
14	Disc-brakes	237
14.	Theoretical Analysis of an Active Suspension Fitted to a London Transport Bus	253
15.	Static and Dynamic Analysis of a Light Van Body Using the Finite Element Method	283
16.	A Preliminary Investigation into the structural Behaviour of an Underground Railway	212
17	Coach	313
17.	Application of the Finite Element Technique to the Structural Analysis of Road and Rail	251
10	Vehicles at London Transport	351
18.	The Optimisation of Undercarriage Characteristics in Transport Aeroplanes Using a	200
10	Hybrid Computation Technique	389
19.	A Theoretical and Practical Examination of Engine Shake	413
20.	Application of the WKBJ Approximation Processes for the Analysis of the Torsional	420
01	Vibrations of Diesel Engine Systems	439
21.	Simplified Modelling of High Linear Systems	451
22.	The Use of Dynamic Strain Records to Estimate the Fatigue Life of a Semi-trailer Chassis	
23.	Design Data for Heavy Vehicles	473
	Index	483

Page