

1	Vocational Vehicles	1
2	Vocational Vehicle Preparation by the Vehicle Manufacturer	3
2.1	Payload-Sensitive Transport.	3
2.2	Large-Volume Transports.	5
2.3	Heavy Duty Transport	6
2.4	Pickup and Delivery Haulage	7
2.5	Construction Sites and Off-Road.	8
2.6	Cold Weather and Winter Operations	10
2.6.1	Improving Starting Response.	10
2.6.2	Traction Assistance.	11
2.6.3	Other Options for Low-Temperature Operation.	14
2.7	Fire Trucks	14
3	Bodies	17
3.1	Subframes	18
3.2	Integrating the Superstructure with the Vehicle.	19
3.3	Electronic Integration of the Superstructure	19
3.4	Supplying Mechanical Energy Supply to the Superstructure	20
4	Trailers and Semitrailers	23
4.1	Various Truck Trailer Combinations or Hitched Combinations	23
4.1.1	The Tractor Semitrailer Combination	23
4.1.2	Turntable Drawbar Trailer	26
4.1.3	Drawbar Combination with Center Axle Trailer	28
4.2	Electrical and Electronic Connection Between the Towing Vehicle and the Towed Unit.	29
4.2.1	North America	29
4.2.2	Europe	29
4.3	Trailer and Semitrailer Chassis	30

4.3.1	Brake in the Trailer	30
4.3.2	The Suspension	31
4.3.3	Lift Axles for Semitrailer	32
4.3.4	Further Fittings for the Towed Unit	32
4.4	Loading and Unloading	34
4.4.1	Sliding Floor, Conveyor Belt and Push-Off Blade	35
4.4.2	Crane Function	36
4.5	Load Securing	37
4.6	Driver Assistance Systems in Trailers or Semitrailers	39
5	Equipment for Typical Truck Application Areas	41
5.1	Distribution Transport	41
5.2	Fresh Food Transports	42
5.3	Dump Truck	44
5.3.1	The Tractor Semitrailer Combination in Construction	45
5.4	Concrete Mixer	46
5.5	The Tank/Bulk Sector	46
5.5.1	Transport of Liquids in Tankers	46
5.5.2	Bulk Transports	47
5.6	Transportation Task in Agriculture	48
5.7	Transport by Sea Container	49
	Appendix A. Comprehension Questions	51
	Appendix B. Abbreviations and Symbols	53
	References	57
	Index	59