

control of emission from motor vehicles to the atmosphere. Covers period 1955-1963. Includes bibliography with abstracts of SAE material.

8.50 Mem. 12.00 List

TP 5 APPLICATION OF COMPUTER IN VALVE GEAR DESIGN - Use of electronic, digital, and analog computers in design and analysis of engine valve gear systems are covered. Specifically included are methods of analyzing engine breathing efficiency, cam face bearing stress, valve gear dynamics, lash measurements on operating engines, deflections and forces in malfunctioning valve trains, and friction damping forces. The correlation of computer results with experimental values is brought out. This book results from technical presentations, discussions, and evaluation of experts experience in the field.

4.00 Mem. 5.50 List

TP 4 RELIABILITY CONTROL IN AEROSPACE EQUIPMENT DEVELOPMENT - Jointly developed by experts from major aerospace companies, TP 4 gives the organization and techniques needed to achieve reliability objectives during development of aerospace equipment. Aimed at engineering and management, the content will provide 'reliability experience' to smaller companies and establish a common approach to the subject with prime contracts.

5.75 Mem. 8.75 List

TP 3 CENTRIFUGAL COMPRESSORS - Covered are aerodynamic design and performance, impeller and diffuser characteristics, transonic flow problems, combined transonic axial and centrifugal stage compressor, development of the Chrysler automotive compressor, and the limiting of automotive gas turbine acceleration.

3.50 Mem. 7.00 List

TP 2 SELECTING THE VEHICLE FOR THE JOB - Contains papers on selecting the right vehicle for the job, door-to-door delivery vehicles, basic considerations for selecting over-the-road vehicles, selecting passenger car fleets, vehicles for public utility service, plus discussion of these papers. (1961)

2.00 Mem. 4.00 List

***AE 4 FATIGUE DESIGN HANDBOOK** - Intended for the experienced engineer, this book gives procedures for determining fatigue properties of materials and components needed to make design decisions. Many references are given to design situations. Also covered are specific practical methods of designing for fatigue without involving the reader in a discussion of the relative merits of various fatigue theories.

12.00 Mem. 17.00 List

AE3 DESIGN OF VIBRATION ISOLATION SYSTEMS - A step-by-step procedure to find dynamic characteristics of an isolation system to protect fragile equipment, and specification information necessary to insure an isolator does the right job, are the two main parts of this

book. Covered in detail are the calculation methods and theory for sinusoidal and random vibration environments needed for linear, center-of-gravity vibration isolation systems. This advanced theory and techniques, originally developed for aerospace installations, are applicable in general to other similar problems where accurate isolation analysis is needed. Two plastic overlays and nine "reproducibles" are included to aid in calculations and specifications.

9.50 Mem. 13.50 List

***AE 2 PASSENGER CAR AUTOMATIC TRANSMISSION DESIGN PRACTICES (Part 2)** - Gives design criteria for transmissions in mass use and detailed design calculations. Components discussed by function are: hydraulic controls, transmission fluids. Includes a complete index for both volumes.

5.00 Mem. 7.50 List

***AE 1 PASSENGER CAR AUTOMATIC TRANSMISSION DESIGN PRACTICES (Part 1)** - Gives design criteria for transmissions in mass use today with detailed design calculations. Components discussed by function are: 1-way clutch, transmission gear design, ratio change and friction elements, oil pumps, hydro-dynamic units, and bearings.

6.50 Mem. 12.00 List

* To order AE 1 and AE 2 as a set, the following special prices apply:
9.75 Mem. 18.00 List

SAE SAFETY STANDARDS SERVICE

This service insures delivery of all SAE ground vehicle safety-related standards via air mail, special delivery. It relieves subscribers of a surveillance task and unnecessary paper work, and guarantees delivery of all new and revised SAE standards and recommended practices as published within a calendar year which begins January 1. Subscribers entering during the year receive "back issue" reports, that is, documents issued since January 1, as well as future documents.

50.00 for first subscription, 25.00 for additional subscriptions sent to the same address.