1. **Closed Loop Hydrostatic Transmissions**
   - Operation
   - Function
   - Components
   - System Efficiency
   - Advantages & Disadvantages
   - Braking Systems
   - Controls
   - Heat
   - Duty-Cycles
   - Design Considerations
   - Variable Speed
   - Variable Displacement

2. **Fluid Motors**
   - Types of Motors
   - Applications
   - Speed Control
   - Load Holding
   - Controls
   - Reversing
   - Fan Drives
   - Comparison To Electric Motors
   - Configuration

3. **Force, Torque & Power**
   - Terms Defined
   - Fan Drives
   - Sizing Filters & Strainers
   - Pump & Motor Shaft Speeds

4. **Hydraulic Motor Selection**
   - Displacement
   - Wheel Drives
   - Winch Drives
   - Pressure Controls
   - Volume Controls
   - Reliance Valves
   - Test Ports

5. **Directional Control Of System**
   - Reversible Motors
   - Series & Parallel
   - Load Overrun
   - Sequential Operation

6. **Speed Control Of System**
   - Common Methods
   - Speed Range

7. **Designing With Hydraulic Motors**
   - Shaft Loading
   - Speed Regulation
   - Efficiency
   - Life Expectancy
   - Displacement Calculations
   - Torque Required

8. **Cavitation & Aeration Problems**
   - Inlet Restrictions
   - Atmospheric Pressure
   - Sizing Filters & Strainers

9. **Troubleshooting The System**
   - Pumps & Pump Controls
   - Motors
   - Valves
   - Relief Valves
   - Filtration
   - Cleanliness
   - Test Ports

10. **Heat Removal From The System**

11. **Start-Up Procedures**

12. **Hydraulic System Safety**

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**REGISTRATION FORM**

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