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| Autore                  | Hodges Peter Keith Brian   |
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of hydraulics; 1.3 Energy considerations; Chapter 2. Types of hydraulic media; 2.1 Historical; 2.2 The ideal hydraulic media; Chapter 3. Mineral base oils; 3.1 Composition of mineral oils; 3.2 Chemical nature; Chapter 4. Additives; Chapter 5. Synthetic oils; 5.1 Types of synthetic oil; 5.2 Synthetic hydrocarbons; 5.3 Polyethers; 5.4 Organic esters; 5.5 Phosphate esters; 5.6 Silicones; 5.7 Fluoroethers; Chapter 6. Rheology; 6.1 Viscosity  
6.2 Low temperature flow properties  
6.3 Temperature dependence of viscosity; 6.4 Shear stability; 6.5 Pressure dependence of viscosity; Chapter 7. Compressibility; 7.1 Secant bulk modulus; 7.2 Tangent bulk modulus; 7.3 Effect of air on bulk modulus; 7.4 Low bulk moduli fluids; 7.5 Density; 7.6 Thermal properties; Chapter 8. Anti-wear properties; Chapter 9. Oxidation stability; Chapter 10. Demulsibility; 10.1 Protection against corrosion; Chapter 11. Aeration problems; 11.1 Diagnosis and treatment of aeration problems; Chapter 12. Filterability; 12.1 Filterability test procedures  
Chapter 13. Specifications  
13.1 Requirements; Chapter 14. Hydraulic fluids for military and aerospace applications; 14.1 Aircraft and aerospace; 14.2 Combat vehicles and artillery; 14.3 Naval vessels; Chapter 15. Selection of a suitable hydraulic fluid; Chapter 16. Test methods for hydraulic media; 16.1 Physical-chemical properties; 16.2 Mechanical testing; Chapter 17. Contamination; 17.1 What impurities are involved?; 17.2 Where do the impurities originate?; Chapter 18. Deterioration and maintenance; 18.1 Flushing; Chapter 19. Analysis of used hydraulic oil  
19.1 Interpretation of the test results  
19.2 Condition monitoring and oil change; Chapter 20. Fire-resistant fluids; 20.1 Conversion of existing systems to fire-resistant fluids; 20.2 Maintenance of fire-resistant fluids; Chapter 21. Hydraulic brake fluids; Chapter 22. Future perspectives; Chapter 23. Health and safety; 23.1 Ingestion; 23.2 Skin contact; 23.3 Eye contact; 23.4 Inhalation; 23.5 Materials safety data sheet; Chapter 24. Hydraulic fluids and the environment; 24.1 What is biodegradability?; 24.2 Determination of biodegradability; 24.3 Biodegradable hydraulic media; Bibliography  
Appendix 1  
Appendix 2; Index

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## Sommario/riassunto

\* Reviews the development of modern hydraulic fluids\* Discusses the application and selection of hydraulic fluids through the investigation of their physical and chemical properties related to the operational requirements.\* Offers guidance on suitable maintenance routines  
Since the first use of water as a hydraulic medium in the late 18th century, hydraulics has become an indispensable discipline of engineering science. Enormous technological advances have been made in the intervening years, but this has not been reflected in the available literature on the numerous fluids invo

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