

SECOND EDITION HANDBOOK OF HYDRAULIC FLUID TECHNOLOGY



Edited by
George E. Totten
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Handbook Of Hydraulic Fluid Technology

Susan Skalak



Handbook Of Hydraulic Fluid Technology:

Handbook of Hydraulic Fluid Technology, Second Edition George E. Totten, Victor J. De Negri, 2011-10-05 Detailing the major developments of the last decade the Handbook of Hydraulic Fluid Technology Second Edition updates the original and remains the most comprehensive and authoritative book on the subject With all chapters either revised in some cases completely or expanded to account for new developments this book sets itself apart by approaching hydraulic fluids as a component of a system and focusing on key technological aspects Written by experts from around the world the handbook covers all major classes of hydraulic fluids in detail delving into chemistry design fluid maintenance and selection and other key concepts It also offers a rigorous overview of hydraulic fluid technology and evaluates the ecological benefits of water and its use as an important alternative technology This complete overview discusses pumps and motors valves and reservoir design as well as fluid properties and associated topics These include air entrainment modulus lubrication and wear assessment by bench and pump testing biodegradability and fire resistance Contributors also present particularly important material on biodegradable fluids and the use of water as a hydraulic fluid As the foremost resource on the design selection and testing of hydraulic systems and fluids used in engineering applications this book contains new illustrations data tables and practical examples all updated with essential information on the latest methods To streamline presentation relevant content from the first edition has been integrated into this new version where appropriate The result is a reference that helps readers develop an unparalleled understanding of the total hydraulic system including essential hardware fluid properties and hydraulic lubricants

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