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This guide serves as a workbook to be used in conjunction with an approved course offered by a training partner recognized by the International Council for Machinery Lubrication (ICML) for a Machinery Lubrication Technician (MLT I or II) certification exam preparation course. The essence of this work is a guided, cooperative, and sometimes even argumentative dialogue between the authors, with continuous asking and answering of questions. This stimulates critical thinking, which in turn draws out underlying presumptions, and results in readers thinking like the person who actually built the exam. The authors are strong proponents of a unique 5-step process for learning: 1. Familiarize 2. Find Socrates 3. Be the Exam 4. Practice Exam 5. Explore This unconventional method has proven to be exceptionally effective, not for only passing the exam, but to truly retaining the knowledge and becoming an expert in the content you're studying. Certification requirements are discussed throughout the work, making this the ideal resource for prospective MLT I and/or MLT II certification candidates. Unique Structured learning Notes Outline: For the reader to complete. Aids in organizing ideas and thoughts. Guided Cooperative Argument: A dialogue between authors concerning the topics. Helps answer questions that are asked on

the job. Statements of Truth and Exam Development: From the recommended Body of Knowledge, with space to develop your multiple-choice questions. Develops critical thinking process and understanding of how the exam questions are structured. Body of Knowledge Outline: Works as a reference to help answer any questions that may arise. Practice Exam: A mock exam designed to familiarize the reader with taking a multiple-choice test that is similar in structure and content to the real one. Glossary & Appendices: List of common terms, charts, and tables with which all certification candidates need to be familiar. Building on the cornerstone of the first edition, Lubrication Fundamentals Second Edition outlines the emergence of higher performance-specialty application oils and greases and emphasizes the need for lubrication and careful lubricant selection. Thoroughly updated and rewritten since the previous edition reached its 10th printing, the book discuss A-Z Guide for Maximum Cost Reduction and Increased Equipment Reliability To remain globally competitive, today's manufacturing operations have greatly improved, but there is one last link in the advancement evolution. The reliability of manufacturing equipment must be improved in order to maximize the productive life of the equipment, eliminate unscheduled shut downs, and reduce operating costs. These are key components to maintaining a smooth work flow and a competitive edge. Written by peer-recognized industry experts, Lubrication and Maintenance of Industrial Machinery: Best Practices and Reliability provides the necessary tools for maintenance professionals who are responsible for the overall operational functions. With chapters culled from the second edition of the Handbook of Lubrication and Tribology, Volume 1 and a new introductory chapter, this more specialized and focused work supplies critical lubrication information that can be used on a daily basis to achieve greater machine reliability. Incorporating lean methods, this resource can be used by everyone involved in the production process, from supervisors to floor personnel. Recommended for STLE's Certified Lubrication Specialist® Certification In addition to lubrication program development and scheduling, this volume also covers critical elements of the reliability equation, such as: Deterioration detection and measurement Lubrication cleanliness and contamination control Environmental implications of various lubricants Energy conservation Storage and handling Recycling of used oils This book fills a niche by specifically and comprehensively focusing on lubrication as part of the overall maintenance program. Under the editorial guidance of two of the most respected names in the field, this seminal work is destined to become an industry standard. Specifically focusing on fluid film, hydrodynamic, and elastohydrodynamic lubrication, this edition studies the most important principles of fluid film lubrication for the correct design of bearings, gears, and rolling operations, and for the prevention of friction and wear in engineering designs. It explains various theories, procedures, and equations for improved solutions to machining challenges. Providing more than 1120 display equations and an introductory section in each

chapter, Fundamentals of Fluid Film Lubrication, Second Edition facilitates the analysis of any machine element that uses fluid film lubrication and strengthens understanding of critical design concepts. Careful selection of the right lubricant(s) is required to keep a machine running smoothly. Lubrication Fundamentals, Third Edition, Revised and Expanded describes the need and design for the many specialized oils and greases used to lubricate machine elements and builds on the tribology and lubrication basics discussed in previous editions. Utilizing knowledge from leading experts in the field, the third edition covers new lubrication requirements, crude oil composition and selection, base stock manufacture, lubricant formulation and evaluation, machinery and lubrication fundamentals, and environmental stewardship. The book combines lubrication theory with practical knowledge, and provides many useful illustrations to highlight key industrial, commercial, marine, aviation, and automotive lubricant applications and concepts. All previous edition chapters have been updated to include new technologies, applications, and specifications that have been introduced in the past 15 years. What’s New in the Third Edition: Adds three new chapters on the growing renewable energy application of wind turbines, the impact of lubricants on energy efficiency, and best practice guidelines on establishing an in-service lubricant analysis program Updates API, SAE, and ACEA engine oil specifications, descriptions of new engine oil tests, impact of engine and fuel technology trends on engine oil Includes the latest environmental lubricant tests, definitions, and labelling programs Compiles expert information from ExxonMobil publications and the foremost international equipment builders and industry associations Covers key influences impacting lubricant formulations and technology Offers data on global energy demand and interesting statistics such as the worldwide population of nuclear reactors, wind turbines, and output of hydraulic turbines Presents new sections on the history of synthetic lubricants and hazardous chemical labeling for lubricants Whether used as a training guide for industry novices, a textbook for students to understand lubrication principles, or a technical reference for experienced lubrication and tribology professionals, Lubrication Fundamentals, Third Edition, Revised and Expanded is a "must read" for maintenance professionals, lubricant formulators and marketers, chemists, and lubrication, surface, chemical, mechanical, and automotive engineers. This handbook helps engineers in industry with the operation and maintenance of machinery. It provides the information that these engineers need in a form that is instantly accessible and easy to read. The manufacturers of machinery give guidelines on the operation, lubrication and maintenance required for their particular equipment. There are however many different machines in an industrial plant or service organisation, often supplied by many different manufacturers, and there is a need to select as many similar lubricants as possible and to use related machine techniques. This book bridges the gap which exists between the available data on the various machines by providing overall guidance on

how to co-ordinate the recommendations of the various equipment makers. The book is structured in a number of sections that will make it easier to use, and to bring together related topics so that when a reader is focusing on a particular problem they can also refer to related material that is also likely to be of interest. THE handbook for an industrial audience consisting of plant engineers and maintenance managers. It describes the essential theory and practice relating to matters of lubrication and reliability. Unique layout and presentation of information makes this one of the best practical reference books available. Almost all mechanical devices used in every industry require lubrication. Lubricant Analysis and Condition Monitoring explains the benefits of identifying, planning, implementing and using lubricant and machine condition monitoring programmes to extend the lifetimes of both lubricants and machines, to achieve maximum productivity and profitability while reducing impacts on waste and the environment. This book: Offers a comprehensive overview of all types of tests used in lubricant condition monitoring programmes Discusses monitoring the condition of all types of components, machines, equipment and systems used in all industries Considers new and emerging machines, equipment and systems, including electric and hybrid vehicles Suggests which tests to use for each type of machine, equipment or system and, just as importantly, which tests not to use Provides practical examples of how to set up, run and manage condition monitoring programmes and how to achieve significant cost savings through planned and predictive maintenance schedules Gathering vital information that users of lubricants need in one place, this book is of practical use to mechanical, maintenance, manufacturing and marine engineers as well as metallurgists, chemists and maintenance technicians. In industry, owners, engineers and workers have struggled with lubricant degradation and its effects on their equipment. The purpose of Lubrication Degradation Mechanisms: A Complete Guide is to help personnel to understand the reasons behind the degradation of their lubricant, determine methods to identify the onset of degradation and reduce or eliminate lubricant degradation within their equipment. One of the most common forms of lubricant degradation is oxidation. However, this is not the only method by which a lubricant degrades. By understanding the differences between degradation patterns, personnel can employ specific tasks / tests to aid in their identification of the type of degradation and the factors responsible. The aim of this book is to educate facility personnel on the methods of degradation and ways in which it can be reduced or eliminated while keeping an eye on the cost of operation. Oil analysis is a long-term program that, where relevant, can eventually be more predictive than any of the other technologies. It can take years for a plant's oil program to reach this level of sophistication and effectiveness. This book includes what all practitioners need to know to build an oil analysis program for their machine inspection. This book includes three real case studies and numerous industrial examples to improve

machine reliability and enhance the condition monitoring program. Covering the fundamental principles of bearing selection, design, and tribology, this book discusses basic physical principles of bearing selection, lubrication, design computations, advanced bearings materials, arrangement, housing, and seals, as well as recent developments in bearings for high-speed aircraft engines. The author explores unique solutions to challenging design problems and presents rare case studies, such as hydrodynamic and rolling-element bearings in series and adjustable hydrostatic pads for large bearings. He focuses on the design considerations and calculations specific to hydrodynamic journal bearings, hydrostatic bearings, and rolling element bearings. The book describes the methods and procedures to optimally applying lubricant to all kinds of general purpose machines. These include process pumps, electric motors and other equipment incorporating rolling element bearing where traditional methods are usually very much out of step with best available practices. Failure analysis, reliability strategies, remedial steps or desirable substitute approaches are also explained. While it is mostly "behind the scenes," lubrication is used wherever you look--in all types of machines, vehicles, and aircrafts. Its usefulness is everywhere, in every industry, from all types of manufacturing, power, health, petrochemicals, food, paper, and metallurgy to small industries and agriculture. Lubrication is absolutely essential to the world. There is an undeniable link between maintenance strategy and lubrication reliability. Depending on the industry, maintenance costs can represent between 15-60% of the cost of goods produced. Therefore, the reliability of plant and equipment has a significant impact on the profits of any organization. Unfortunately, most problems related to machinery in plants are lubrication-related. To get maximum benefit from advanced maintenance strategies, an understanding of equipment lubrication is a must. That's why this work is invaluable. Machinery Lubrication and Reliability contains everything a maintenance, plant, or industrial professional needs to know about lubrication theory, with vital information on all the critical equipment lubrication requirements. It illustrates how to improve reliability, maximize equipment life, eliminate unscheduled shut downs, and reduce operating costs. Rounding out this amazing package are questions and answers for those looking to obtain their ICML certifications. An affiliated web site (www.machinerylubricationreliability.com) contains additional questions for exam takers looking for extra practice. Features The only book that covers all the topics for the ICML certification course. Includes the industry standard API-614 throughout. Contains practice questions for the ICML exam at the end of each chapter, along with additional ones on the affiliated website. A guide for plant managers and maintenance engineers to aid understanding of the design parameters, application and economics of oil mist lubrication technology. The information presented is based on years of profitability advantages of oil mist lubrication in a variety of industrial settings. Completely revised, this new edition includes the latest

material on oil analysis, the energy conservation aspects of lube oil application and selection and bearing protector seals. Information on synthesized hydrocarbons and oil mist lubrication is thoroughly revised. It addresses the full scope of industrial lubricants, including general purpose oils, hydraulic fluids, food-grade and environmentally friendly lubricants, synthetic lubricants, greases, pastes, waxes and tribosystems. Detailed coverage is provided on lubrication strategies for electric motor bearings, gear lubrication, compressors and gas engines, and steam and gas turbines. Other topics include proper lubricant handling and storage, as well as effective industrial plant oil analysis practices.