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Depressants; 2.2 Used Lubricating Oil Characteristics; 2.2.1 Extraneous Contaminants; 2.2.2 Products of Oil Deterioration; 2.3 Effects of Oil Contaminants; 2.4 The Hydrocarbon Composition of Used Oil; 2.5 Physical and Chemical Tests of Used Lubricating Oil; 2.6 Used Oil Recovery Processes; 2.6.1 Dehydration of Used Oil 2.6.2 Solvent Treatment 2.6.3 Vacuum Distillation; 3 Experimental Methods; 3.1 Materials; 3.2 Solvent Extraction Experimental Design; 3.3 Experimental Apparatus; 3.3.1 The Oldershaw Sieve Plate Column; 3.3.2 The Vacuum Distillation Unit; 3.3.3 Simple Vacuum Distillation Unit; 3.3.4 Simple Atmospheric Distillation Unit; 3.4 Experimental Procedures; 3.4.1 Dehydration; 3.4.2 Solvent Extraction; 3.4.3 Vacuum Distillation; 3.5 Analysis and Tests Methods; 4 The Re-refining Process Experimental Results; 4.1 Dehydration; 4.2 Solvent Extraction; 4.2.1 The Optimum Solvent to Oil Ratio 4.2.2 Optimum Solvent Composition 4.3 Solvent Stripping; 4.4 Vacuum Distillation; 4.4.1 Used Lubricating Oil; 4.4.2 Virgin Lubricating Oil; 4.4.3 Solvent Treated Oil; 4.5 Comparison of the Properties of Various Oils; 4.6 Comparison between Used Oil, Virgin Oil and Re-refined Oil; 4.7 Comparison between Still Pot, Liquid Condensate, and Vapor Temperatures; 5 Conclusions; Back matter; Appendix A Distribution Coefficient; Appendix B Optimization Program; Appendix C Re-refining Process Diagrams; References; Index

Sommario/riassunto

Design Aspects of Used Lubricating Oil Re-Refining presents a feasible and comprehensive technology for recycling of used lubricating oils. This book discusses efficient and effective ways of reusing lubricating oil which, if implemented, will result in a better quality of life, the stability of the environment, the health of national economies and better relationships between nations. It presents essential experimental results for process designers and engineers to establish a complete process design. The conditions and behaviour in each step in the re-refining process, (dehydration
