## CONTENTS

	Page
Overview	vii
Fuel System Contaminants: An Introduction	1
Microbes in Fuel: An Overview with a Naval Perspective	6
Identification and Control of Microbial Growth in Fuel Handling Systems	15
Microbiological Contamination: Evaluation of Some Sampling and Laboratory Analytical Meth	ods 27
Methodology for Identification of Diesel Fuel System Contaminants Related to Problems in the	
Field	37
Causes of Color Change and Sediment formation in Navy Distillate Fuels	48
Effects of an Unstable Diesel Fuel on Injector Coking and Vehicle Performance	63
Fuel Filter Plugging by Insoluble Sediment in Diesel Fuels	82
Factors to Consider in Testing Biocides for Distillate Fuels	95
Additives for Middle Distillate and Kerosine Fuels	105
The Defense Fuel Supply Center's (DFSC) Quality Assurance Program	114
Method of Managing Long-Term Diesel Fuel Integrity	119
Quality Control for Diesel Fuel in Long-Term Emergency Storage	139
Effective Treatment of Microbially Contaminated Fuel Storage Tanks	146
Effects of unstable and Microbially Contaminated Fuel on Vehicle Operations: A Diesel Fuel	
Preventive Maintenance Program	157
Fuel Quality Program for Long-Term Storage of Gas Turbine Distillate Fuel in Large Tanks	167
Panel Discussion	183
Index	199