Stefan Orszulik Editor

Environmental Technology in the Oil Industry

Third Edition



Contents

I	A. Ahnell and Peter Evans	1
2	Environmental Control Technology for Oilfield Processes A.K. Wojtanowicz	25
3	Environmental Control of Well Integrity	61
4	Environmental Control of Drilling Fluids and Produced	
	Water	101
5	Oilfield Waste Disposal Control	167
6	Environmental Impacts of Hydraulic Fracturing	199
7	Drilling and Production Discharges in the Marine	
	Environment	221
8	Decommissioning of Offshore Oil and Gas Installations M.D. Day and A. Gusmitta	257
9	Tanker Design and Safety: Historical Developments	
	and Future Trends	285

vi Contents

10	Pipeline Technology and the Environment	321
11	Environmental Management and Technology in Oil Refineries	375
12	The Marketing, Distribution and Use of Petroleum Fuels Malcolm F. Fox	393
13	Lubricants	439
14	Climate Change Scenarios and Their Potential Impact on World Agriculture	457
Ind	ndex	