1. Record Nr. UNINA9910777419003321 **Titolo** An assessment of techniques for removing offshore structures [[electronic resource] /] / Committee on Techniques for Removing Fixed Offshore Structures; Marine Board, Commission on Engineering and Technical Systems, National Research Council Pubbl/distr/stampa Washington, D.C., : National Academy Press, 1996 Descrizione fisica 1 online resource (86 p.) Disciplina 622.33819 Soggetti Offshore structures **Drilling platforms** Oil well drilling rigs Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. ""AN ASSESSMENT OF TECHNIQUES FOR REMOVING OFFSHORE Nota di contenuto STRUCTURES""; ""Copyright""; ""MARINE BOARD""; ""Preface""; ""BACKGROUND"": ""COMMITTEE COMPOSITION AND SCOPE OF THE STUDY"": ""HOW THE STUDY WAS CONDUCTED"": ""ORGANIZATION OF THE REPORT""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""Contents""; ""Executive Summary""; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""REFERENCE""; ""10verview of Existing Offshore Structures and Removal Regulations""; ""EXISTING PLATFORMS""; ""Platform Types and Configurations""; ""Free-Standing Caisson with Well(s)""; ""Well-Protector Jackets"" ""Braced Caissons with Well(s)""""Conventionally Piled Platforms with Wells""; ""Conventionally Piled Platforms without Wells""; ""Skirt-Piled Platforms""; ""Special Application Platforms""; ""CONSTRUCTION EQUIPMENT USED IN PLATFORM REMOVALS""; ""REGULATIONS, LAWS, AND PERMITS""; ""Federal Laws and Regulations""; ""Outer Continental Shelf Lands Acts""; ""National Environmental Policy Act of 1969""; ""Endangered Species Act""; ""Marine Mammals Protection Act""; ""Other Laws and Regulations""; ""Platform Removal Permit Process""; ""Rigs-to-Reef Program""; ""International Laws""; ""REFERENCES""

""2 Assessment of Cutting Techniques"""EXPLOSIVE CUTTING

TECHNIQUES""; ""Present Explosive Cutting Techniques""; ""Bulk Explosive Charges": ""Configured Bulk Charges": ""Cutting Charges": ""Future Explosive Cutting Techniques""; ""Cutting Charges"" ""Fracturing Charges""; ""Other Explosive Charges""; ""NONEXPLOSIVE CUTTING TECHNIQUES""; ""Present Nonexplosive Cutting Techniques""; ""Mechanical Cutters""; ""Abrasive Cutters""; ""Diver Cuts""; ""Future Nonexplosive Cutting Techniques""; ""Hydraulic Shears""; ""Diamond Wire Cutter""; ""TECHNIQUES BEING DEVELOPED""; ""Laser Cutting"" ""Pyrotechnic Cutting""""Cryogenics""; ""Chemical Cutters""; ""Deployment of Remotely Operated Vehicles""; ""Bubble Curtains""; ""Acoustic Devices""; ""Platform Design Considerations""; ""REFERENCES""; ""3 Technical Considerations""; ""RECENT REMOVAL PATTERNS""; ""Platform Removals by Water Depth""; ""Platform Removals by Year""; ""Platform Removal Trend""; ""TYPICAL ABANDONMENT PROCESS""; ""Removal Options""; ""Leave-in-Place Option""; ""Partial Removal Option""; ""Topple-in-Place Option""; ""Complete Removal Option""; ""Factors in Selecting Removal Methods"" ""TYPICAL PLATFORM REMOVAL COSTS"""REFERENCES""; ""4 Environmental Assessment of Present Removal Techniques"": ""HABITAT AND ECOSYSTEMS""; ""Sea Turtles""; ""Marine Mammals""; ""Fish""; ""NONLETHAL EFFECTS OF EXPLOSIVE REMOVALS"": ""SUMMARY"": ""REFERENCES""; ""5 Summary Assessment of Explosive and Nonexplosive Technologies""; ""FINDINGS""; ""6 Conclusions and Recommendations""; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""APPENDICES""; ""Appendix A Biographical Sketches of Committee Members""; ""Appendix B Federal Register Notice and List of Respondents""; ""LIST OF RESPONDENTS"" ""Appendix C Participants in Committee Meetings""