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STANDARDS""; ""BQ-9000 FUEL QUALITY PROGRAM""; ""Acknowledgments""; ""CHAPTER 3 - BIOENERGY: BIOMASS TO BIOFUELS GLOSSARY OF TERMS AND CONVERTION FACTORS""; ""Outline placeholder""; ""GLOSSARY OF TERMS""; ""REFERENCES""; ""QUICK REFERENCE LIST OF CONVERSION FACTORS USED FOR BIOENERGY FEEDSTOCK""; ""ENERGY UNITS""; ""SOME COMMON UNITS OF MEASURE""; ""AREAS AND CROP YIELDS""; ""BIOMASS ENERGY""; ""FOSSIL FUELS""
""CARBON CONTENT OF FOSSIL FUELS AND BIOENERGY FEEDSTOCKS""""" PART 2 WOOD AND GRASS BIOMASS AS BIOFUELS""; ""CHAPTER 4 - WOOD BIOENERGY""; ""INTRODUCTION TO WOOD BIOENERGY""; ""WOOD ENERGY SOURCES: A VAST AND RENEWABLE RESOURCE""; ""WOOD BIOENERGY USES IN THE UNITED STATES AND WORLDWIDE""; ""VALUES AND BENEFITS OF WOOD BIOENERGY""; ""WOOD ENERGY SOURCES""; ""MANAGING WOOD BIOMASS FOR BIOENERGY""; ""HARVESTING, TRANSPORTING, AND STORING WOODY BIOMASS FOR BIOENERGY""; ""USING WOODY BIOMASS""; ""DIRECT COMBUSTION OPTIONS""; ""LIQUID AND GASEOUS BIOFUEL CONVERSION OPTIONS""
""BIOCHEMICAL TECHNOLOGICAL PROCESSES""""THERMOCHEMICAL PROCESSES""; ""ECONOMICS OF WOODY BIOENERGY""; ""ECONOMICS OF WOODY BIOENERGY PRODUCTION""; ""SUSTAINABILITY OF WOODY BIOENERGY""; ""SUMMARY""; ""REFERENCES""; ""CHAPTER 5 - PERENNIAL GRASS BIOMASS PRODUCTION AND UTILIZATION""; ""INTRODUCTION""; ""DEVELOPING AND EVALUATING A PERENNIAL GRASS BIOMASS SYSTEM""; ""REFERENCES""; ""CHAPTER 6 - WOOD AND GRASS ENERGY SERVICE LEARNING PROJECTS AND CASE STUDIES""; ""Outline placeholder""; ""REFERENCE""; ""SUBCHAPTER 6A - THE VERMONT BIOMASS ENERGY CO-OP""; ""INTRODUCTION""; ""COMMUNITY PARTNER""
""EXECUTIVE SUMMARY OF THE BUSINESS PLAN FOR THE VERMONT BIOMASS ENERGY CO-OP""

Sommario/riassunto

Depleting fossil fuel reserves and adverse effects of fluctuating oil prices have renewed interest in alternative and sustainable sources of energy. Bioenergy: Biomass to Biofuels takes on this topic and examines current and emerging feedstocks and advanced processes and technologies enabling the development of all possible alternative energy sources: solid (wood energy, grass energy, and other biomass), liquid (biodiesel, algae biofuel, ethanol), and gaseous/electric (biogas, syngas, bioelectricity). Divided into seven parts, Bioenergy gives thorough consideration to topics such as feedstock