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Autore	Tomkins Thomas <1637?-1675.>
Titolo	The inconveniencies of toleration, or, An answer to a late book intituled, A proposition made to the King and Parliament for the safety and happiness of the King and kingdom [[electronic resource]]
Pubbl/distr/stampa	London, : Printed for W. Garret, 1667
Descrizione fisica	[2], 38 p
Soggetti	Liberty of conscience Great Britain Politics and government 1660-1688
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Autore	Bajus Martin <1943->
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Nota di contenuto	Intro -- Converting Power into Chemicals and Fuels -- Contents -- About the Book -- Preface -- Acknowledgments -- General Literature -- Nomenclature -- Abbreviations and Acronyms -- 1 Power-to-Chemical Technology -- 1.1 Introduction -- 1.2 Power-to-Chemical Engineering -- 1.2.1 Carbon Dioxide Thermodynamics -- 1.2.2 Carbon Dioxide Aromatization Thermodynamics -- 1.2.3 Reaction Mechanism of Carbon Dioxide Methanation -- 1.2.4 Water Electrolysis Thermodynamics -- 1.2.5 Methane Pyrolysis Reaction Thermodynamic Consideration -- 1.2.5.1 The Carbon-Hydrogen System -- 1.2.6 Reaction Kinetics and Mechanism -- 1.2.7 Thermal Mechanism of Methane Pyrolysis into a Sustainable Hydrogen -- 1.2.8 Catalytic Mechanism Splitting of Methane into a Sustainable Hydrogen -- 1.2.9 Conversion of Methane over Metal Catalysts into a Sustainable Hydrogen -- 1.2.9.1 Nickel Catalysts -- 1.2.9.2 Iron Catalysts -- 1.2.9.3 Regeneration of Metal Catalysts -- 1.2.10 Conversion of Methane over Carbon Catalysts into Clean Hydrogen -- 1.2.10.1 Activity of Carbon Catalysts -- 1.2.10.2 Stability and Deactivation of Carbon Catalysts -- 1.2.10.3 Regeneration of Carbon Catalysts -- 1.2.10.4 Co-Feeding to Extend the Lifetime of Carbon Catalysts --

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Diesel -- 7.13 Conclusion and Outlook -- Further Reading -- 8 Power-to-Light Alkenes -- 8.1 Oxidative Dehydrogenation -- 8.1.1 Carbon Dioxide as a Soft Oxidant for Catalytic Dehydrogenation -- 8.1.2 Carbon Dioxide: Oxidative Coupling of Methane -- 8.1.3 From Carbon Dioxide to Lower Olefins -- 8.1.4 Low-Carbon Production of Ethylene and Propylene -- 8.1.4.1 Energy Demand per Unit of Ethylene/Propylene Production via Methanol.
8.1.4.2 Carbon Dioxide Reduction per Unit of Ethylene/Propylene Production.

Sommario/riassunto

Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low-carbon alternatives. The book stresses the versatility of hydrogen as an enabler of the renewable energy system, an energy vector that can be transported and stored, and a fuel for the transportation sector, heating of buildings and providing heat and feedstock to industry.
