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Titolo	Blueprint for a Methanol Society : Toward Carbon-Neutrality // by Junji Nakamura, Masayoshi Ishida
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Descrizione fisica	1 online resource (267 pages)
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Disciplina	660
Soggetti	Chemistry, Technical Chemistry Catalysis Materials Force and energy Renewable energy sources Environmental chemistry Industrial Chemistry Chemical Synthesis Materials for Energy and Catalysis Renewable Energy Environmental Chemistry
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Global Warming and CO Emissions -- Energy Issues -- Issues in the Industrial Sector -- Policy Issues -- Why a Methanol Society? -- Energy Use of Methanol -- Chemical Use of Methanol -- Progress of the Methanol Society -- Roadmap and Business Development of the Methanol Society -- Technologies Required for a Methanol-Based Society -- Methanol Science and Technology -- Thinking Towards the Future.
Sommario/riassunto	This book presents a comprehensive vision for building a carbon-neutral society with methanol at its core. Part I clarifies the essential challenges of global warming and exposes the shortcomings of current carbon-neutral strategies through facts and numbers, highlighting the

limits of renewables, hydrogen, and other proposed solutions. Part II introduces the concept of a methanol-based circular society, showing how CO can be recycled into methanol to serve as both an energy carrier and a chemical feedstock. Part III explores practical pathways for implementation, detailing the roles of technology, policy, and business in fostering collaboration between industry, government, and academia, while also empowering the next generation to act. By combining scientific rigor with a clear roadmap, this book provides critical knowledge for policymakers, industry leaders, researchers, and citizens seeking actionable solutions to the climate crisis. The English translation of this book, originally in Japanese, was facilitated by artificial intelligence. The content was later revised by the author for accuracy.
