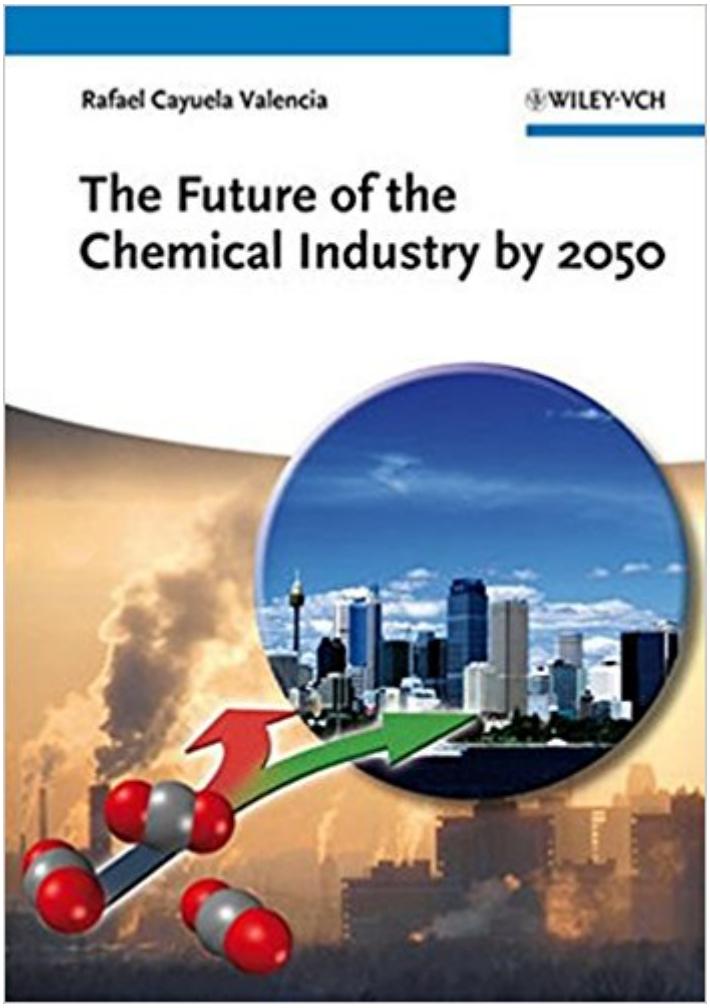
The Future Of The Chemical Industry By 2050



Synopsis

Discussing the technological supremacy of the chemical industry, including pharmaceuticals, and how it will adopt a leading position to solve some of the largest global challenges humans have even seen, this book details how the industry will address climate change, aging populations, resource scarcity, globality, networks speed, pandemics, and massive growth and demand. Following a detailed introduction to some of the megatrends shaping our world over the forthcoming decades, the book goes on to provide several scenarios of how the world could look by 2050, including 'business as usual' and a 'sustainable' one. Chapter 3 gives a comprehensive overview of the current status, while providing a short historical review of the chemical industry, its origins, achievements and fundamentals. The following chapter reviews the potential impact of each of the selected megatrends on the industry, while Chapter 5 proposes how it could look by 2050. Several features of the chemical industry are presented and discussed, including the industrial relevance from an economical, technological and profitability point of view. The largest chemicals markets in absolute and per capita bases and the areas and countries with largest growth potential for chemicals, pharmaceuticals and feedstock. This chapter also reviews the impact of climate change on the chemical industry from a feedstocks and products point of view and, more specifically, the potential costs in reducing CO2 emissions. A final, concluding chapter summarizes the forthcoming megatrends and potential challenges, opportunities and the outlook for the industry as a whole.

Book Information

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Customer Reviews

Ã¢â ¬Å“Valuable for those who need to know, now and in the future; Yogi would be pleased.Ã Â

Summing Up: Highly recommended.Ã Â Upper-division undergraduates and above.Ãçâ ¬Â•Ã Â (Choice, 1 January 2014) Ã Â

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It is not a bad book but in my humble opinion its real content can be written in 20 or 40 pages, no more. There are some useful numbers there but a lot of repetition of the same assumptions and - most importantly - in my opinion there is a little foundation for believeing in a "sustainability scenario" and assumptions behind it. Also the level of aggregation is very high in order to make the numbers useful for a specific branch of chemical industry. Well. this is probably just me problem and the book was not intended for the purpose I needed it.

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