



# Reaction Mechanisms in Carbon Dioxide Conversion

*Michele Aresta, Angela Dibenedetto, Eugenio Quaranta*

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**Reaction Mechanisms in Carbon Dioxide Conversion** Michele Aresta, Angela Dibenedetto, Eugenio Quaranta

This book provides an analysis of the reaction mechanisms relevant to a number of processes in which CO<sub>2</sub> is converted into valuable products. Several different processes are considered that convert CO<sub>2</sub> either in specialty chemicals or in bulk products or fuels. For each reaction, the mechanism is discussed and the assessed steps besides the dark sites of the reaction pathway are highlighted. From the insertion of CO<sub>2</sub> into E-X bonds to the reduction of CO<sub>2</sub> to CO or other C<sub>1</sub> molecules or else to C<sub>2</sub> or C<sub>n</sub> molecules, the reactions are analysed in order to highlight the known and obscure reaction steps. Besides well known reaction mechanisms and energy profiles, several lesser known situations are discussed. Advancing knowledge of the latter would help to develop efficient routes for the conversion of CO<sub>2</sub> into valuable products useful either in the chemical or in the energy industry. The content of this book is quite different from other books reporting the use of CO<sub>2</sub>. On account of its clear presentation, "Reaction Mechanisms in Carbon Dioxide Conversion" targets in particular researchers, teachers and PhD students.

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