

In the context of the International Francqui Chair of Rodney Fox, Professor at Iowa State University, two volumes of *Advances in Chemical Engineering* are dedicated to *Bridging Scales in Modelling and Simulation of Reacting Flows*. As Prof. Rodney Fox, the contributors to this issue have made numerous ground-breaking contributions to the field of multiphase and reactive flow modeling. The impact of the advances made extends far beyond chemical engineering and touches every technological area dealing with turbulent flow and chemical reactions (e.g., combustion, atmospheric science, nuclear fuel processing, etc.). Volume 52 addresses the coupling between flow and species composition fields. Volume 53 focuses on fluidized bed reactors and the advances made in developing scale-bridging approaches. The methods presented in the different chapters are illustrated with industrially relevant applications.

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