

MIMS現象数理カフェセミナー

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Two-scale expansion with drift approach to a slow smoldering combustion process in a porous media

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Abstract: We are interested in the upscaling of a slow smoldering combustion process, involving a nonlinear chemical reaction of a solid fuel and an oxidizer on the pore surfaces of a heterogeneous porous media. We introduce the two-scale expansion with drift to derive the upscaled system of equations. Specially, we use this approach to study more general velocity fields arising from dominant convection regime of the flow.



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