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We strongly recommend such a mesoscopic approach to ensure that the reaction–transport equations studied are physically and mathematically sound.We present a comprehensive review of the mesoscopic foundations of reaction–transport equations in Chap. 3, which is at the heart of Part I. Part II focuses on front propagation. Chapter 4 provides an overview of front propagation in standard reaction–diffusion systems.

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reaction-transport equation should have a sound macroscopic or mesoscopic foundation. Second, if the state of the reaction-transport system is spatially uniform, the characteristics of the transport process should play no role in the evolution of the density. For $\rho(x,t) = \rho(t)$, the reaction-transport equation

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