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Undoubtedly, there are many problems in mixing where turbulence plays no role (e.g. mixing in the mantle of the Earth, polymer processing; see Figure 1). Nevertheless, a general attack to the study of mixing has to delve into the connection with turbulence. Some of these matters are discussed in Section 4.

MIXING, CHAOTIC ADVECTION, AND TURBULENCE

SINGULARITIES AND MIXING IN FLUID MECHANICS By Xiaoqian Xu A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy

SINGULARITIES AND MIXING IN FLUID MECHANICS

inappropriate mixing in the lab gives zero yield of a prospective chemical product. Hence at 1300 hefty pages and some 43 mostly very well-known author specialists, the handbook is well placed to help to counter this waste of resources. The handbook has come into being through the efforts of the North American Mixing Forum (NAMF).

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