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Advanced Transport Phenomena is ideal as a graduate textbook. It contains a detailed discussion of modern analytic methods for the solution of fluid mechanics and heat and mass transfer problems, focusing on approximations based on scaling and asymptotic methods, beginning with the derivation of basic equations and boundary conditions and concluding with linear stability theory.

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also focuses on the solutions of representative problems. This reflects the author's bias toward learning to think about the solution of transport problems. L. Gary Leal is professor of chemical engineering at the University of California in Santa Barbara. He also holds positions in the Materials Department and in the Department of Mechanical Engineering. He has taught at UCSB since 1989 ...

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