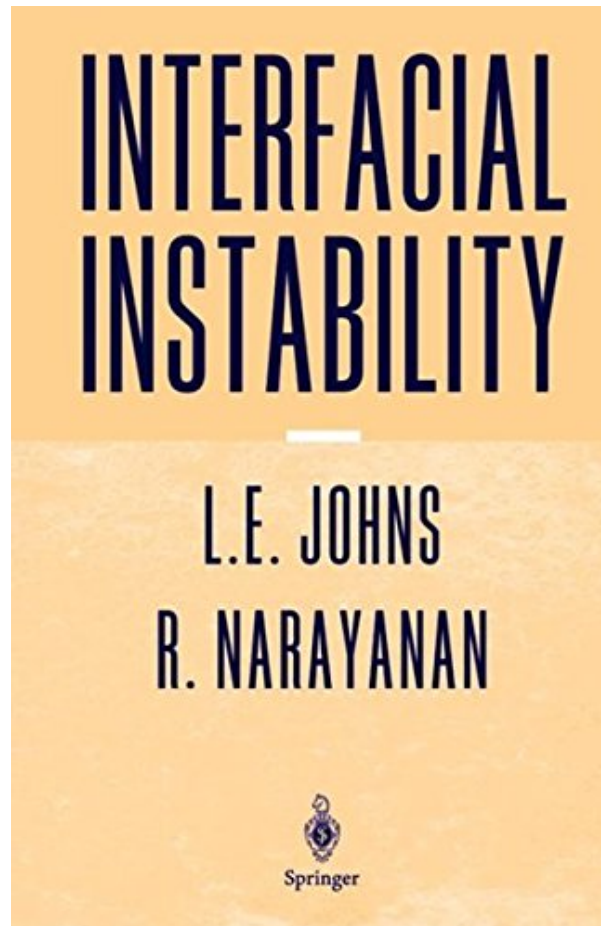


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From the reviews:

"This book is an excellent text for graduate students, as well as anyone interested in starting research in the area of interfacial instability. The subject of interfacial instability is introduced in terms of the liquid jet, liquid bridge, and the stability of other interfaces such as those in solidification. There are nine chapters, each in the form of an essay" (Yuriko Y. Renardy, *Mathematical Reviews*, 2003 j)

"In nine chapters this book deals with linear stability problems which involve, in one way or another, a free deforming boundary. The authors have selected topics which can all be solved analytically, making this book quite useful for teaching. ... The book is also well suited as an introductory reading for students who would like to understand the physics and get acquainted with one of the particular subjects addressed here." (H. Kuhlmann, *Zentralblatt MATH*, Vol. 1019, 2003)

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A worthy book for the careful reader

By A. Finn

This book is written in a skillful manner and with pedagogy in mind. The authors have given explanations of the classical works of Rayleigh and other great physicists in ways that are better than the original papers themselves. I read many of the chapters (essays), deriving the intermediate results and like the authors applications of the Rayleigh work principle (as they call it) to a variety of problems. The second chapter on domain and surface perturbations, and the associated Appendix are the best I have seen anywhere and do what no other book has done thus far. The authors explain here how to write equations at distorted surfaces in terms of convenient reference surfaces and answer a lot of subtle questions in the process. The second

chapter seems to be the basis for the entire book.

The energy arguments in the chapters on jets and Rayleigh Taylor are really nice. The chapters on rotating liquid bridges, solidification, precipitation, and electrodeposition contain a lot of new material. The subject matter is explained in physical terms with pictures and predictive calculations are then made that support the physical arguments. This book is great for intermediate graduate students and teachers who like to use a pen and a tablet. I have read several books on stability of fluid flow and this book is among the best. The book is best read in a research group and many interesting ideas will emanate. A worthy buy!

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Writing a book for the sake of writing a book?

By N. Kaplun

This book reads as if the authors were trying to teach themselves interfacial instability. The problems are old worn-out, and the "essays" (each chapter, that is) are simply re-working of what is in the technical literature. The book does have some value, and should be useful to graduate students, but the authors could have chosen many problems of current interest with rich applications and pedagogical value. The topics chosen are from classic papers (Lord Rayleigh, Saffman & Taylor, Chandrasekhar, etc.). Get Xerox copies of the original papers and save a bundle! The book is not worth the price (roughly \$....)

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A worth buy book

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