

INTERFACIAL WAVE THEORY OF PATTERN FORMATION%0A

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The stability mechanisms of a curved front and the pattern formation in dendrite growth and viscous fingering have been fundamental subjects in the areas of condensed-matter physics, materials science, crystal growth, and fluid mechanics for about half a century.

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In particular, it describes the most prominent pattern formation phenomena commonly observed in material processing and crystal growth in the framework of the previously established interfacial wave theory, including free dendrite growth from undercooled melt, cellular growth and eutectic growth in directional solidification, as well as viscous fingering in Hele-Shaw flow. It elucidates the

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servedly recommend [Interfacial Wave Theory of Pattern Formation in Solidification](#) as a stand-alone course textbook, but I do think it would be a good guide to the literature and a possibly inspiring source for lectures focusing on the mathematical aspects of pattern formation. Moreover, such an ambitious, advanced text will surely be of great interest to mathematical physicists and

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J.J. Xu, "Interfacial Wave Theory of Pattern Formation: Selection of Dendritic Growth and Viscous Fingering in Hele-Shaw Flow", Springer-Verlag Publisher in the series of Synergetic , (296 pages) (1997).

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This comprehensive work explores interfacial instability

and pattern formation in dynamic systems away from the equilibrium state in solidification and crystal growth.

Further, this significantly

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In particular, it describes the most prominent pattern formation phenomena commonly observed in material processing and crystal growth in the framework of the previously established interfacial wave theory, including free dendritic growth from undercooled melt, cellular growth and eutectic growth in directional solidification, as well as viscous fingering in Hele-Shaw flow. It elucidates the key problems, systematically derives their mathematical solutions by pursuing a unified, asymptotic

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