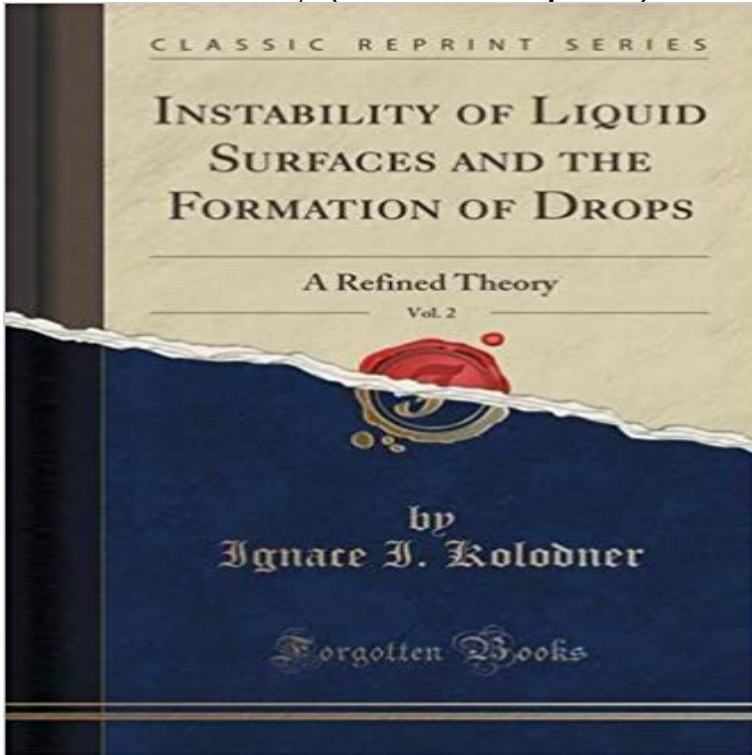


Instability of Liquid Surfaces and the Formation of Drops, Vol. 2: A Refined Theory (Classic Reprint)



Excerpt from Instability of Liquid Surfaces and the Formation of Drops, Vol. 2: A Refined Theory In an earlier paper [2] we showed how the notion of Taylor instability can be used to explain the break-up of accelerated thin liquid sheets into drops, and how on the basis of this theory the drop sizes can be estimated. The idea underlying the calculation is as follows: One considers a plane layer accelerated in a direction normal to its surface by imposing, e.g., a pressure difference on opposite surfaces. The zero order motion - which incidentally is an exact solution for the plane layer - is a parallel flow with the velocity of bounding surfaces. It is next argued that the flow actually deviates from the zero order solution because either the bounding surfaces are not perfectly plane, or the pressure on the boundary is not exactly constant, or because of some random perturbation that may occur at the outset or during the motion. To see what happens to the bounding surfaces, one considers the first order perturbation which satisfies linear equations and is represented by a series (or integral) of normal modes. Some of these modes are found to be unstable in the sense that their amplitudes grow unrestrictedly with time. Among tries one or more may be called most unstable in the sense that they grow most rapidly. When the acceleration of the layer is constant the unstable modes grow exponentially and the most unstable modes have the largest exponent. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page,

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