The instability of decaying pipe flow JIM DENIER, NATHANIEL
JEWELL, The University of Adelaide — In unsteady pipe flow, the frictional as-
pects have long been calculated using steady-flow formulas, which are demonstrably
incorrect. Previous work has limited application because it is based on empirical
modelling, rather than on an understanding of the fundamentals of the fluid mechan-
ics of boundary layers in unsteady flow. This talk will present some new results on
the problem of the instability of the unsteady flow in a circular pipe that is suddenly
blocked.

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