

Article

Experimental Study on Gas-Liquid Two-Phase Stratified Flow at High Pressure in a Horizontal Pipe

Yubo Wang ^{1,2,*}, Yanan Yu ^{1,2}, Zhigang Liu ³, Yingjie Chang ^{3,4}, Xiangyuan Zhao ³ and Qiming Wang ⁵¹ School of Thermal Engineering, Shandong Jianzhu University, Jinan 250101, China² Shandong Technology Innovation Center of Carbon Neutrality, Shandong Jianzhu University, Jinan 250101, China³ State Key Laboratory of Multiphase Flow in Power Engineering, Xi'an Jiaotong University, Xi'an 710049, China; liuzhigang@stu.xjtu.edu.cn (Z.L.); yj.chang@xjtu.edu.cn (Y.C.); zhaoxiangyuan@stu.xjtu.edu.cn (X.Z.)⁴ Shaanxi Key Laboratory of New Transportation Energy and Automotive Energy Saving, Chang'an University, Xi'an 710064, China⁵ Weihai Haibei Technology Co., Ltd., Weihai 264200, China; wqphather@126.com

* Correspondence: wangyubo20@sdjzu.edu.cn

Abstract: This study investigates wave-stratified flow in a horizontal pipe at high pressure, and flow characteristics are obtained, such as flow pattern map, liquid film thickness, and pressure drop. Compared with a flow pattern map of a gas-liquid two-phase flow carried out at atmosphere, stratified flow zone is depressed with increasing system pressure and the critical gas superficial velocity decreases for smooth-wave-stratified flow transition, while the critical liquid superficial velocity increases for stratified-intermittent transition. On one hand, the compressed air results in an increase in momentum transfer between gas and liquid phases, which accounts for the smaller gas superficial velocity that is encountered in both smooth-wave and stratified-annular flow transition at higher pressure. On the other hand, it slows down the liquid below the crest, and it makes the interface wave crest unstable and split for the vortex shedding behind the wave crest, which accounts for flow regime transition in gas-liquid two-phase flows in pipelines. As a result, stratified-intermittent flow transition is depressed and delayed. The pressure influence on the liquid film profile is analyzed, and relationships between film thickness and dimensionless numbers are studied, such as liquid Weber number and gas Weber number. Friction factors on different interfaces at high pressure are studied, and new empirical formulas are deduced.

Keywords: high pressure; flow pattern map; stratified flow; liquid film thickness; friction factor



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1. Introduction

A gas-liquid two-phase flow is a common phenomenon in oil pipelines [1–3], especially for the oil transportation under oil wells and offshore. Fluid flow patterns change with increasing of the mass flow rates of both phases, and different flow regimes are defined successively, such as smooth-stratified flow, wave-stratified flow, annular flow, mist flow, slug flow, plug flow, and bubble flow. With 1178 flow pattern observations of air-water two-phase flows in horizontal pipes, Mandhane et al. [1] proposed a classical flow pattern map that plotted, in coordinate system, both air and liquid superficial velocities.

Taitel et al. [4] theoretically studied the gas-liquid two-phase flow characteristics, such as pressure drop and void fraction, and a two-fluid model was applied to deduce flow regime transition models; well prediction was achieved, and a critical liquid superficial velocity of about 0.15 m/s was obtained to accomplish stratified-plug flow transition. However, they still encountered considerable error in precious prediction for flow pattern transition; the smooth-wave-stratified flow transition boundary that was determined by the theoretical model was much steeper than the experimental data, and a much smaller

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Two-Phase Gas-Liquid Flow in Pipes with Different Orientations Afshin J. Ghajar, 2020-03-14 This book provides design engineers using gas liquid two phase flow in different industrial applications the necessary fundamental understanding of the two phase flow variables Two phase flow literature reports a plethora of correlations for determination of flow patterns void fraction two phase pressure drop and non boiling heat transfer correlations However the validity of a majority of these correlations is restricted over a narrow range of two phase flow conditions Consequently it is quite a challenging task for the end user to select an appropriate correlation model for the type of two phase flow under consideration Selection of a correct correlation also requires some fundamental understanding of the two phase flow physics and the underlying principles assumptions limitations associated with these correlations Thus it is of significant interest for a design engineer to have knowledge of the flow patterns and their transitions and their influence on two phase flow variables To address some of these issues and facilitate selection of appropriate two phase flow models this volume presents a succinct review of the flow patterns void fraction pressure drop and non boiling heat transfer phenomenon and recommend some of the well scrutinized modeling techniques

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