



University of Hormozgan
Mechanical Engineering Department

Two- Phase Flow
Spring Semester 2020

Instructor: Dr. Pouyan Adibi
Email: adibi@hormozgan.ac.ir

Time and Location:

Sun. 10:00- 11:00, Computer Site
Wed. 10:00- 12:00, Class 806

Suggested References (Not Restricted to):

- [1] D. Butterworth, G. F. Hewitt (Edited by), ***Two- Phase Flow and Heat Transfer***, Oxford University Press
- [2] G.B.Wallis, ***One Dimensional Two- Phase Flow***, McGraw-Hill
- [3] S. G. Kandlikar, M. Shoji, V. K. Dhir, ***Handbook of Phase Change Boiling and Condensation***, Taylor & Francis
- [4] J.G.Collier, ***Convective Boiling and Condensation***, Oxford Science Publications
- [5] A. E. Bergles, J. G. Collier, J. M. Delhaye, G. F. Hewitt, F. Mayinger, ***Two- Phase Flow and Heat transfer in the Power and Process Industries***, McGraw-Hill
- [6] C. T. Crowe, J. D. Schwarzkopf, M. Sommerfeld, Y. Tsuji, ***Multiphase Flows with Droplets and Particles***, Taylor & Francis

[7] انصاری، م.، دارمی زاده، ع.، ادیبی، پ.، ***مقدمه‌ای بر رفتارهای هیدرودینامیکی اسلاگ در جریان دوفازی گاز مایع در لوله***، انتشارات دانشگاه تربیت مدرس

ASSESSMENT	Project (Presentation)	25%
	Project (Simulation)	35%
	Final	40%

Outline:

☒ Introduction and Preliminaries
☒ Heat and Hydrodynamic Behavior
☒ Pool Boiling
☒ Instabilities