

and **Chun-Wei Yao**, Department of Mechanical Engineering, Lamar University, Beaumont, TX 77710, USA
Address: Department of Mechanical Engineering, Lamar University, Beaumont, TX 77710, USA
Email: phe@lamar.edu
Email: cw@lamar.edu
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Abstract

The experimental setup is shown in Figure 1. The test cell consists of a cylindrical chamber (CAH) with a diameter of 4 cm and a length of 30 cm. The chamber is filled with a porous medium (PTFE) and is surrounded by a thermal insulation layer (T). The chamber is connected to a flow system (C) and a pressure measurement system (P). The flow system consists of a pump (P) and a flowmeter (F). The pressure measurement system consists of a pressure transducer (PT) and a data acquisition system (DAS). The test cell is equipped with a temperature control system (T) and a data acquisition system (DAS).

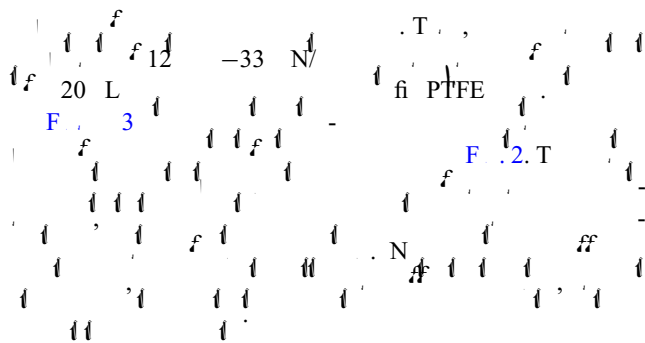
Experimental setup

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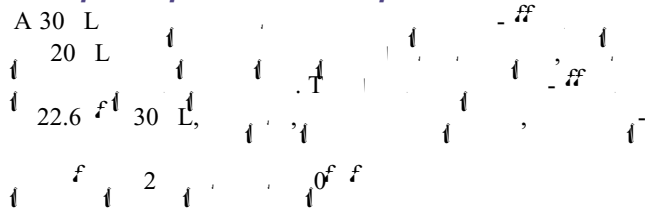
$$T_{ij} = \frac{1}{2} \rho v_i v_j + \rho \epsilon_{ijk} \omega_k + \rho \delta_{ij} \left(\frac{1}{2} v^2 + \epsilon \right) + \rho \delta_{ij} \kappa \quad (9)$$

$(S_L) = 5 \text{ N/}$, $(S_L) = -80 \text{ N/}$, $(S_L) = 50 \text{ N/}$, $(S_L) = -10 \text{ N/}$. T
 F. 2() F. 2() F. 2() F. 2()
 F. 2() B

$(S_L) = 49.2 \text{ E}$

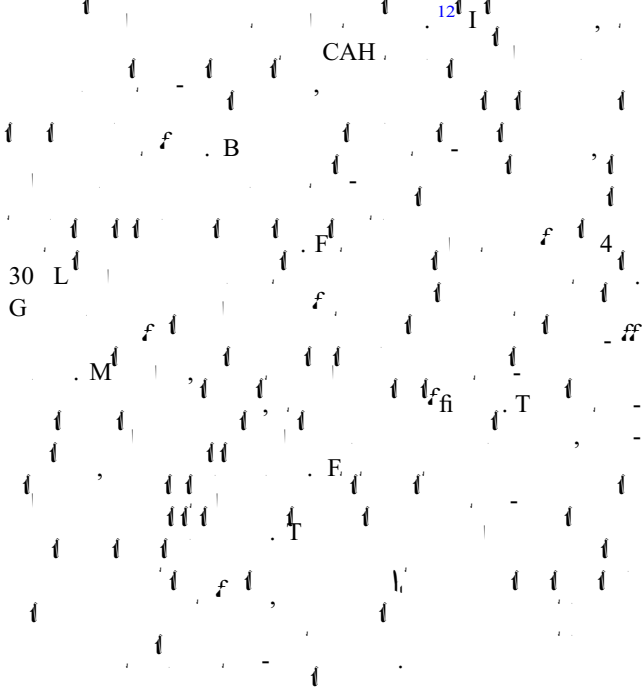


A 30 µL droplet on a tilted plate



Concluding remarks

AN-S-



Supplementar material

T
ff // . /10.1557/ .2019.92.

Acknowledgments

T
G (REG) A LU^f T
M (CAPM) L U^f A P
A T A C (TACC) UT
E C I C (CICE) L U^f
D H C M P L
D M C LU^f HPC IT I^f
M C S HPC

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