Mathematical Modeling of Fluid Flow through Deformable Porous Medium

First Author1, Second Author2,3, Third Author1

1 Department of Mathematics, Indian Institute of Technology Kharagpur, India

2 S. P. Pune University, Pune, India

3 Harish Chandra Research Institute, Allahabad, India

E-mail address of Presenter for Correspondence: abc@gmail.com

Section:

Present work reports a mathematical modeling for the two-phase flow through deformable porous medium. We write down the mass and momentum balance equations for both the phases. The momentum equations are coupled due to the relative interaction (or drag) force between the phases.