Title:	Mechanics of Cell Migration Using Motor-Clutch Model and Optimality in Cell Migration
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Abstract:	As we know that cell migration is a very important process in life, from the development of embryos continuing until death. The extracellular environment impacts the cell to a great extent in migration. Many cells exhibit a sti→ness optimum at which the migration is maximum. This optimum sti→ness varies over vast ranges depending on the cell. In this thesis, I give an account of a motor-clutch model of cell traction which displays a maximum in traction force with respect to substrate sti→ness. I look at this optimality with varying parameter values. Finally I incorporate motor attachment/detachment to see the e→ect of this variation on the cell migration model.
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