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MECH ENG 420: Micro and Nano-Scale Fluid Dynamics ...

The Micro/Nanoscale Fluid Transport Laboratory (MNFTL) is housed in the Department of Mechanical and Industrial Engineering of the University of Illinois at Chicago (UIC), and is directed by Prof. Constantine M. Megaridis.Graduate students and postdocs work collaboratively in the laboratory and pursue research funded by federal and industrial sources.

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fluid flow in micro- and nano-scales needs specific technique, which is based on assumption that fluid particle can be represented as a cluster of atoms. Effective clustering can be built using the so-called Voronoi tessellation, describing a special kind of decomposition of the flow domain (Czerwińska 2004). Such coarse grained modelling is useful

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Micro- and nanoscale fluid mechanics : transport in microfluidic devices. Responsibility Brian J. Kirby. Imprint New York : Cambridge University Press, 2010. ... This text was designed with the goal of bringing together several areas that are often taught separately - namely, fluid mechanics, electrodynamic, and interfacial chemistry and ...

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This is the expected schedule of assignments and exams for Fall term. This is subject to change. This is NOT a listing of lectures-just assignments and exams.Homeworks are to be turned in by electronic submission by direct message to me on slack.

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