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# Kinetic Theory Fluid Dynamics Yoshio Sone

**lecture 9 - kolmogorov's theory applied computational ...** - 5 integral scale • we can derive an estimate of the lengthscale  $l_0$  of the larger eddies based on the following: - eddies of size  $l_0$  have a characteristic velocity  $u_0$  and timescale  $\tau_0 \equiv l_0/u_0$  - their characteristic velocity  $u_0 \equiv u(l_0)$  is on the order of the r.m.s. turbulence intensity  $u' \equiv (2k/3)^{1/2}$  - assume that energy of eddy with velocity scale  $u_0$  is dissipated in time  $\tau_0$

**lecture 14 - multiphase flows applied computational fluid ...** - 7 multiphase flow regimes • user must know a priori the characteristics of the flow. • flow regime, e.g. bubbly flow, slug flow, annular flow, etc.

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