References for MATH 8540

Yoichiro Mori

November 27, 2016

We used some distribution theory. A good discussion can be found in:


For numerical linear algebra, I recommend


The immersed boundary method is discussed in:


For the convergence analysis, we followed:


For further results, see


For implicit treatment of the immersed boundary method, we followed:


The preconditioning strategy for the implicit immersed boundary method discussed in class is related to:

For further developments, see, for example:


For the level set method, the standard references are:


Use of delta functions in the level set method is discussed in:


For slender body theory, some references include:


For filament simulations with delta function regularization, see:
