For instructors and advanced students who wish to dive into the mathematics of numerical fluid dynamics:

Chapter 1 of [Numerical PDE Techniques for Scientists and Engineers](https://www3.nd.edu/~dbalsara/Numerical-PDE-Course/ch1/abstract.shtml) by Dinshaw Balsara

PDF: [Balsara Chapter 1](https://www3.nd.edu/~dbalsara/Numerical-PDE-Course/ch1/Chp1_Overview.pdf)

[PLUTO: A NUMERICAL CODE FOR COMPUTATIONAL ASTROPHYSICS](https://iopscience.iop.org/article/10.1086/513316/pdf) by Andrea Mignone