

MATLAB Source Codes

1. [advection_pde](#), a MATLAB code which solves the advection partial differential equation (PDE) $du/dt + c * du/dx = 0$ in one spatial dimension, with a constant velocity c , and periodic boundary conditions, using the FTCS method, forward time difference, centered space difference.
2. [advection_pde_test](#)
3. [allen_cahn_pde](#), a MATLAB code which sets up and solves the Allen-Cahn reaction-diffusion system of partial differential equations (PDE) in 1 space dimension and time.
4. [allen_cahn_pde_test](#)
5. [alpert_rule](#), a MATLAB code which sets up an Alpert quadrature rule for functions which are regular, $\log(x)$ singular, or $1/\sqrt{x}$ singular.
6. [alpert_rule_test](#)
7. [analemma](#), a MATLAB code which evaluates the equation of time, a formula for the difference between the uniform 24 hour day and the actual position of the sun, based on a C program by Brian Tung.
8. [analemma_test](#)
9. [aneurysm_mesh](#), a MATLAB code which starts with a schematic drawing of an aneurysm in a blood vessel, allows the user to select points along the boundary, and then calls on `mesh2d()` to create a mesh of the region.
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32. [arpack_test](#), a MATLAB code which calls `arpack()`, which computes eigenvalues and eigenvectors of large sparse matrices, accessible via the built-in `eigs()` command.
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RJ Shavelson



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it down to a charging voltage so that it can efficiently charge the battery for this project we will be using the lt3562 based mppt charge controller circuit board that we have already made in one of our previous projects

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