PDE solution flow charts

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Started to make flow charts for solving PDE's. In progress...

1 Heat PDE

Simplified the original chart, which was getting too complicated, to the following one



Figure 1: heat PDE flow chart

I have kept the first chart below for reference, but the above one is much simpler.



Figure 2: original heat PDE flow chart

Wave PDE 2



 $\psi(r,\phi,t) = \sum J_m(k_{mn}r) \left(\cos(m\phi) + \sin(m\phi)\right) \left(\cos(ck_{mn}t) + \sin(ck_{mn}t)\right)$ Nasser M. Abbasi December 14, 2018

Figure 3: Wave PDE flow chart