Notes on dftatom

To allow general, nonuniform meshes, all methods first transform equations on general mesh R(t), with $1 \le t \le N+1$, to equations on a uniform mesh t with step size h=1. If the solution of a general mesh is P(t) and the transformed solution on the uniform mesh is u(t) then:

$$u(t) = P(R(t)) \tag{1}$$

$$u'(t) = \frac{\mathrm{d}u}{\mathrm{d}t} = \frac{\mathrm{d}P}{\mathrm{d}R}R'(t) \tag{2}$$