(4)
$$q_{0}(t) = q_{0}f(t)$$
 $Q_{0}(t) = \int q_{0}f(t)dt$
 $q_{1}(t) = q_{1}f(t)$ $Q_{1}(t) = \int q_{1}f(t)dt$
 $q_{N}(t) = q_{N}f(t)$ $Q_{N}(t) = \int q_{N}f(t)dt$

Ro kery mecroposignius:

 $Q(t) = \sum_{i=0}^{N} Q_{i}(t) = \sum_{i=0}^{N} q_{i}\int f(t)dt$

1. $f(t) = (1+6Dt)^{-1/6}$
 $f(t)dt = \frac{(1+6Dt)^{(1-\frac{1}{6})}}{D(6-1)} + C$
 $Q(t) = \sum_{i=0}^{N} q_{i}\frac{(1+6Dt)^{(1-\frac{1}{6})}}{D(6-1)} = \frac{1}{1-(1-6)}$
 $f(t) = \int_{i=0}^{N} q_{i}\frac{(1+6Dt)^{(1-\frac{1}{6})}}{Q(6-1)} = \frac{1}{1-(1-6)}$

2. $f(t) = \int (1+6Dt)^{-1/6} q_{i}\frac{(1+6Dt)^{(1-\frac{1}{6})}}{Q(6-1)} = f(t)$
 $f(t) = \int_{i=0}^{N} q_{i}\frac{(1+6Dt)^{(1-\frac{1}{6})}}{Q(6-1)} = f(t)$

$$\begin{array}{lll}
\mathcal{U}_{y} & \text{ yearshin} & \text{ uniquipites. } u & \text{ energies on } : \\
& \left(\frac{1 + \delta_{1} D \Theta}{1 + \delta_{1} D \Theta} \right)^{-\frac{1}{\delta_{1}}} = k D_{2} & \Rightarrow D_{2} = \frac{D}{(1 + \delta_{1} D \Theta)} \\
& \frac{1 + \delta_{1} D \Theta}{1 + \delta_{1} D \Theta} = k D_{2} & \Rightarrow D_{2} = \frac{D}{(1 + \delta_{1} D \Theta)} \\
& f(t) = \begin{cases} \frac{1}{(1 + \delta_{1} D \Theta)^{-\frac{1}{\delta_{1}}}}, & t < \Theta \\ \frac{1}{(1 + \delta_{1} D \Theta)^{-\frac{1}{\delta_{1}}}}, & (1 + \delta_{2} D \frac{(t - \Theta)}{(1 + \delta_{1} D \Theta)})^{-\frac{1}{\delta_{2}}}, & t \ge \Theta \end{cases}$$

$$\int f(t) dt = \begin{cases} \frac{1}{D(\delta_{2} - 1)} (1 + D \delta_{1} t)^{(1 - \frac{1}{\delta_{1}})} + C, & t < \Theta \\ \frac{1}{D(\delta_{2} - 1)} (1 + D \delta_{1} t)^{(1 - \frac{1}{\delta_{1}})} + C, & t < \Theta \end{cases}$$

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$$\int f(t) dt = \begin{cases} \frac{1}{D(\delta_{2} - 1)} (1 + D \delta_{1} t)^$$

$$Q(t) = \underbrace{\tilde{z}}_{i=0}^{r} q_i F(t) \Big|_{i=1}^{r}$$