

$$\begin{array}{l}
g(x)n(x)x \\
\text{Smoothing Process}\kappa g(x) \\
\\
\alpha = 1, \beta = 5 \\
\text{Bottom Recession Process}x_2g(x) \\
\frac{\alpha \left(x_2-x_{2,min}\right)+\beta-\gamma g(x)=\left\{ \begin{array}{l} f\left(x\right) for f(x)>0 \\ 0 otherwise \end{array} \right.}{\alpha = 10, \beta = \gamma = 0.1} \\
shape_1^{pdf}(s)=\cos(s)2T_0(\frac{s-\pi}{\pi})+T_2\frac{s-\pi}{\pi} \\
x_2(s)=\sin(s)2T_0(\frac{s-\pi}{\pi})+T_4(\frac{s-\pi}{\pi}) \\
x_1,x_2\in^N Nxx_1^T,x_2^T \\
\dot{x}\frac{dx}{dt}Velocity \\
\ddot{x}\frac{d^2x}{dt^2}Acceleration \\
\kappa=\frac{\dot{x}\times\ddot{x}}{\dot{x}^3}Curvature \\
0^2\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T} \\
s=2\pi n/N, for n=0,,N-1 s s s 2\pi \\
\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}n\log n \\
\dot{x}=\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}^{-1}diag(i\left[0:N/2,0\right])\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}(x) \\
\ddot{x}=\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}^{-1}diag(i^2\left[0:N/2+1\right]^2)\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}(x) \\
diag(a)ax_1x_2\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}(x)[\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}(x_1),\mathcal{R}\mathcal{F}\mathcal{F}\mathcal{T}(x_2)] \\
\dot{x}_2,\dot{x}_1] \\
k=\frac{\dot{x}_1\dot{x}_2-\dot{x}_2\dot{x}_1}{\dot{x}_2^2-\dot{x}_1^2/2} \\
lowest_{n(s)}^{pdf}a(s,b(n).pdf)sh(s)=\cos(s) \\
lowest_{n(s)}^{pdf}ad.pdf \\
\text{Bottom Recession Process}x_1x_2x_1 \\
lowest_{n(s)}^{pdf}ad.pdf \\
\frac{dt=g(x) \ n+\alpha \ a_t \ a_t=\frac{\ddot{x}\cdot\dot{x}}{\dot{x}}\frac{\dot{x}}{\dot{x}}}{a_t\ddot{x}\dot{x}a_t\alpha=1a_tg(x)\alpha g(x)} \\
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\end{array}$$