棱台

Vtub=(1/3\*(x(1)\*x(3)+x(2)\*x(4)+sqrt(x(1)\*x(2)\*x(3)\*x(4))))\*x(5);

Stub\_air=x(1)\*x(3)

Stub=(x(3)+x(4))\*sqrt((x(1)-x(2))^2+x(5)^2)+(x(1)+x(2))\*sqrt((x(3)-x(4))^2+x(5)^2)+x(2)\*x(4)

x(1)>=1.5

x(2)>=1.25

x(3)>=0.75

x(4)>=0.57

x(5)>=0.6

圆角台

Vtub=1/3\*pi\*x(5)\*((x(3)/2)^2+(x(4)/2)^2+2\*x(3)/2\*x(4)/2)+1/3\*x(5)\*(x(1)\*x(3)+x(2)\*x(4)+sqrt(x(1)\*x(3)\*x(2)\*x(4)));

X(5)=sqrt((x(1)-x(2))^2+x(5)^2);

Stub\_air=x(1)\*x(3)+pi\*((x(3))/2)^2

Stub=pi\*x(3)/2\*X(5)+pi\*x(4)/2\*X(5)+(x(1)+x(2))\*X(5)+x(2)\*x(4)+pi\*((x(4))/2)^2

x(1)+x(3)>=1.5

x(2)+x(4)>=1.25

x(3)>=0.75

x(4)>=0.57

x(5)>=0.6

椭圆台

L=sqrt((x(1)-x(2))^2+x(5)^2);

Vtub=1/3\*pi\*(x(2)\*x(4)-x(1)\*x(3))\*x(5);

Stub\_air=pi\*x(1)\*x(3);

Stub=pi\*(x(1))\*L+pi\*(x(2))\*L+(x(3)+x(4))\*X(5)+x(2)\*x(4)+pi\*x(2)\*x(4)

x(1)>=1.5

x(2)>=1.4

x(3)>=0.75

x(4)>=0.6

x(5)>=0.6

椭圆体