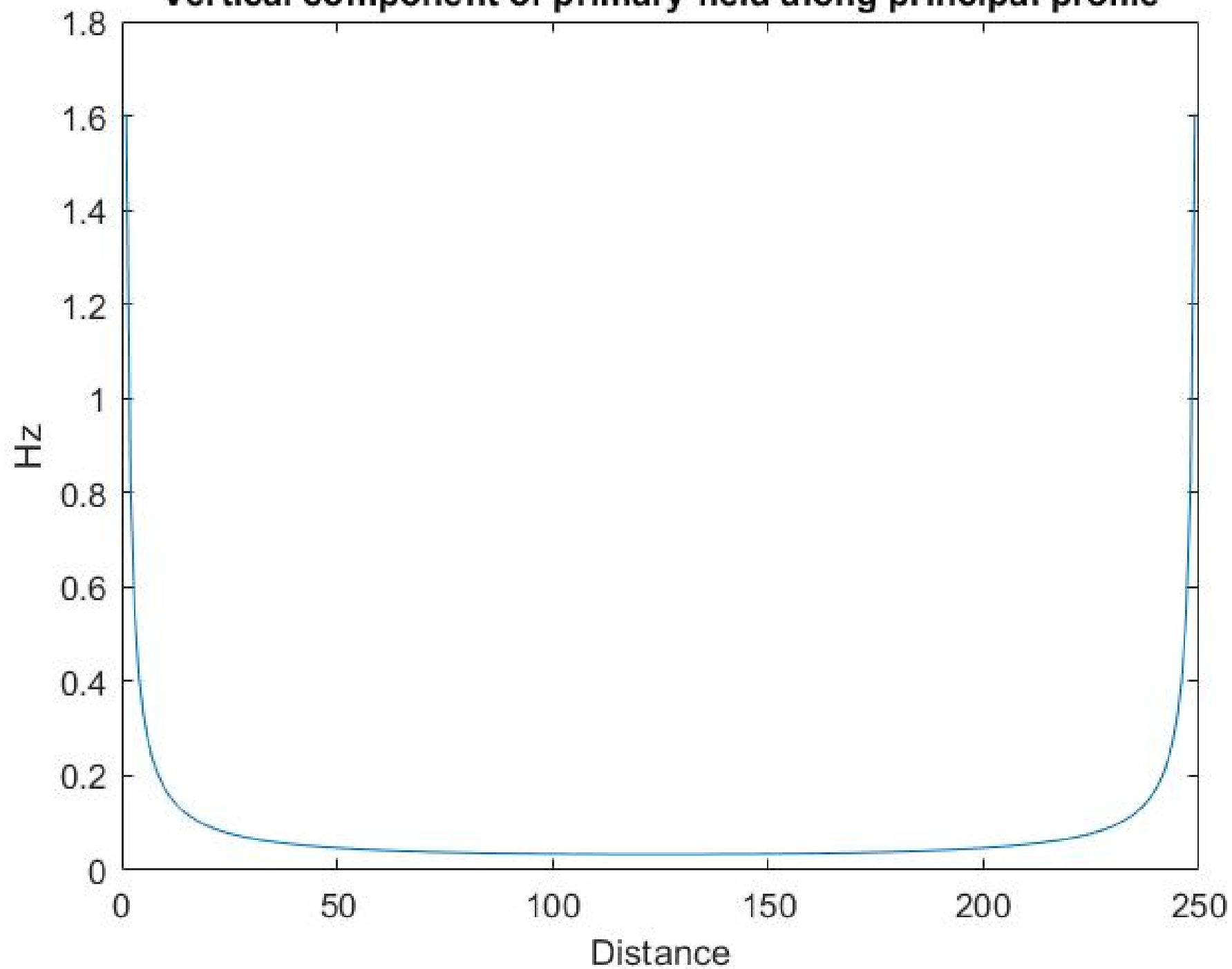


```

1      %18EX20030 UTKARSH JAISWAL
2 -    clear all
3 -    close all
4 -    clc
5 -    l=250;
6 -    h=300;
7 -    i=10;
8 -    H(h-1,l-1)=0;
9 -    a = linspace(1,l-1,l-1);
10 -   b = linspace(1,h-1,h-1);
11 -   for x=1:h-1
12 -   for y=1:l-1
13 -       r1 = (((x)^2 + y^2))^0.5;
14 -       r2 = (((h-x)^2 + y^2))^0.5;
15 -       r3 = (((h-x)^2 + (l-y)^2))^0.5;
16 -       r4 = ((x^2 + (l-y)^2))^0.5;
17 -       a1 = x*y;
18 -       a2 = (h-x)*y;
19 -       a3 = (h-x)*(l-y);
20 -       a4 = x*(l-y);
21 -       H(x,y)=(i/(4*pi))*((r1/a1)+(r2/a2)+(r3/a3)+(r4/a4));
22 -   end
23 - end
24 -   Y=H(150,:);
25 -   plot(a,Y)
26 -   title('Vertical component of primary field along principal profile')
27 -   xlabel('Distance')
28 -   ylabel('Hz')

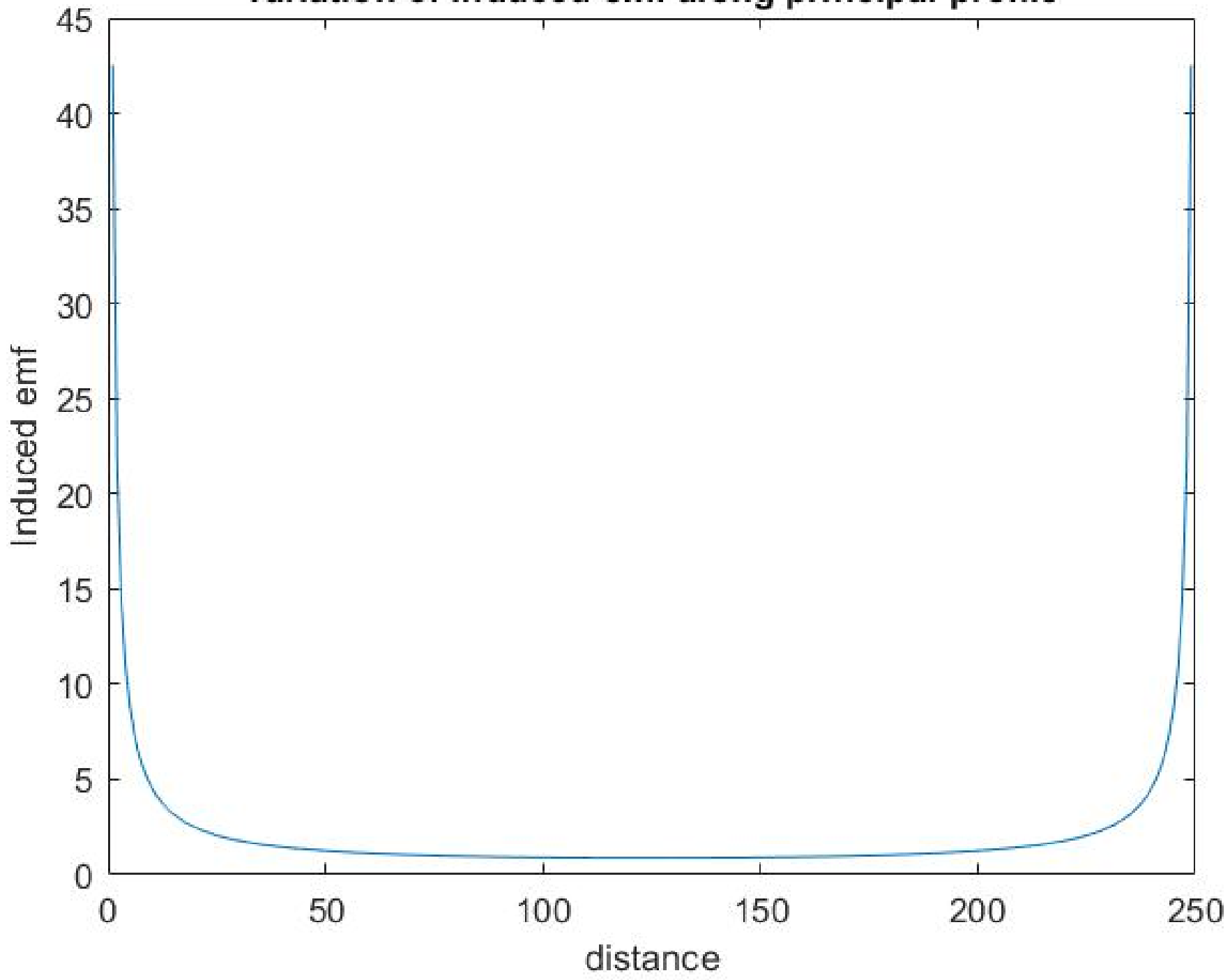
```

Vertical component of primary field along principal profile



```
title('variation of Induced emf along principal profile')  
xlabel('distance')  
ylabel('Induced emf')
```

variation of Induced emf along principal profile



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