

Figure 10a. 3-D Geometry of Open Box (with Thickness = 1)  
showing Sink and Sources

$$\begin{aligned}
 f(x,y,z) = & \frac{-500}{[(x - 5)^2 + (y - 0)^2 + (z + 2)^2]^{1/2}} \\
 & + \frac{10000}{[(x - 0)^2 + (y + 0.1)^2 + (z - 5)^2]^{1/2}} \\
 & + \frac{100}{[(x - 0)^2 + (y - 5)^2 + (z - 6)^2]^{1/2}}
 \end{aligned}$$

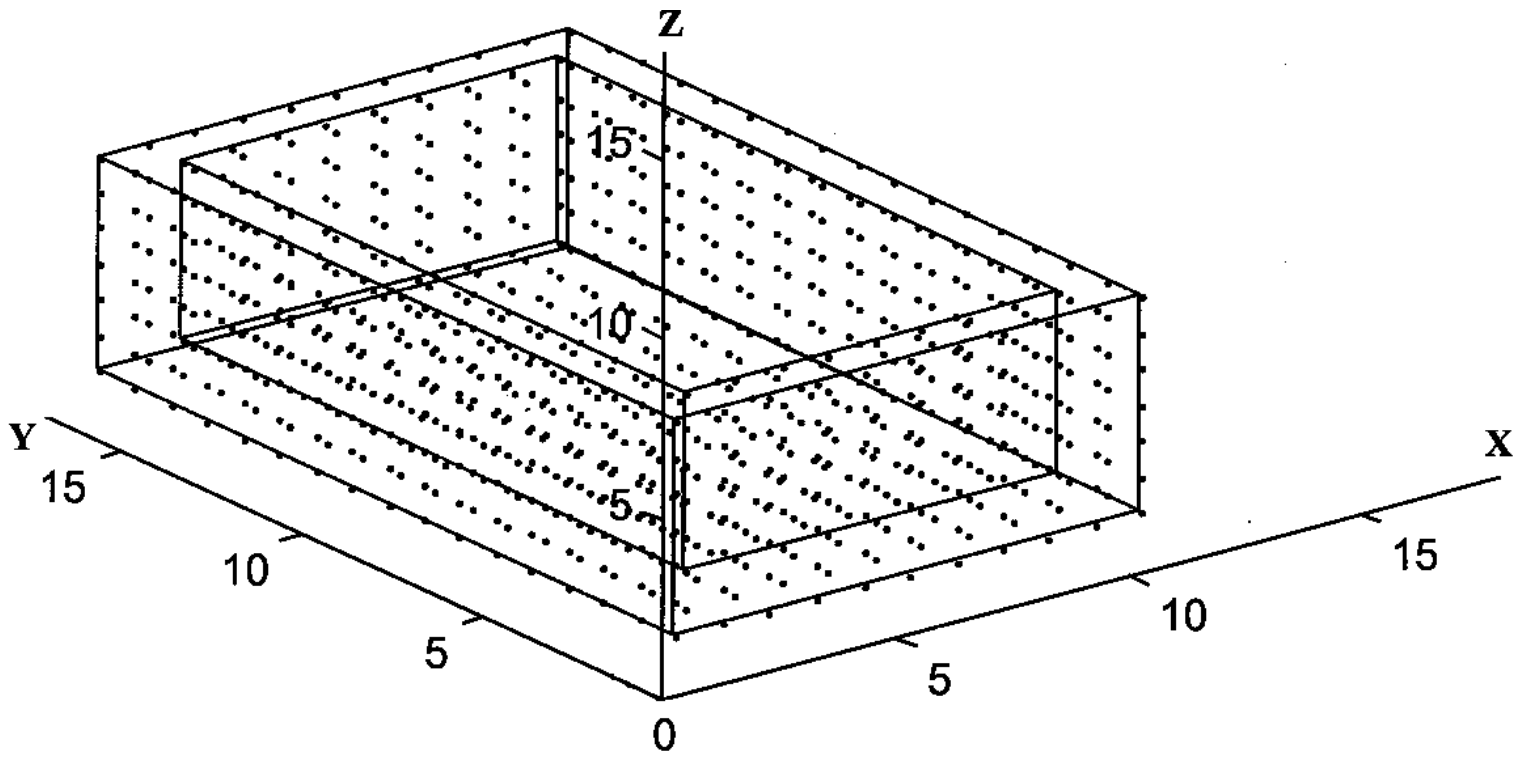


Figure 10b. Integration Point Distribution

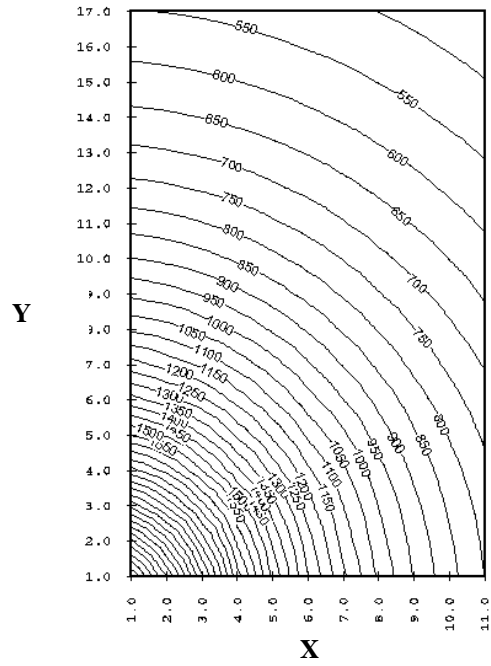


Figure 10b. Exact Solution (slice at  $z = 1.5$ )

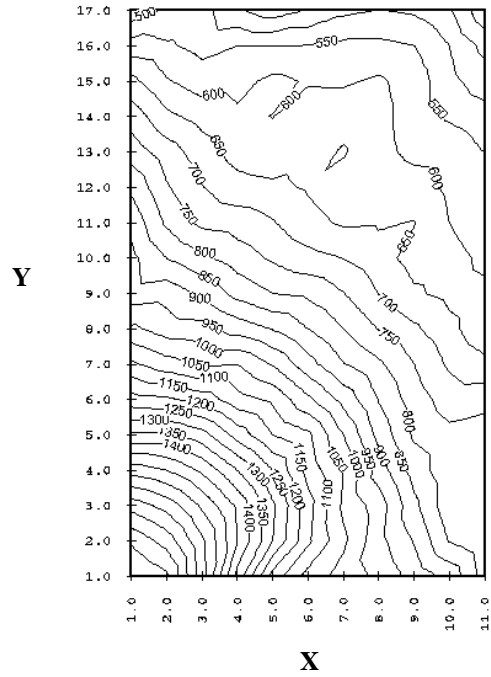


Figure 10c. Approximation Solution (slice at  $z = 1.5$ )

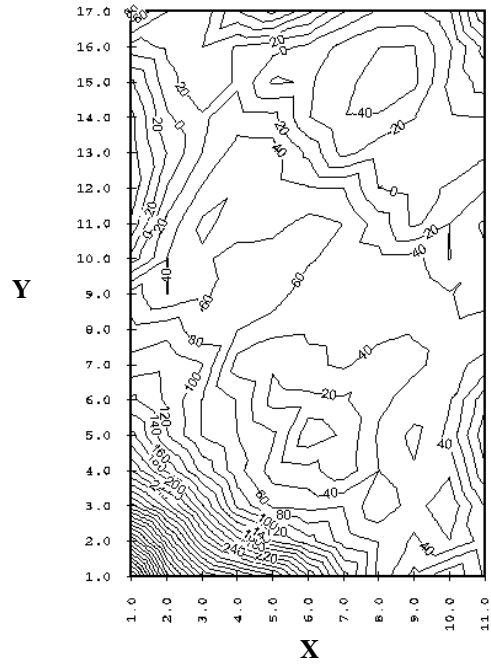


Figure 10d. Approximation Error (slice at  $z = 1.5$ )

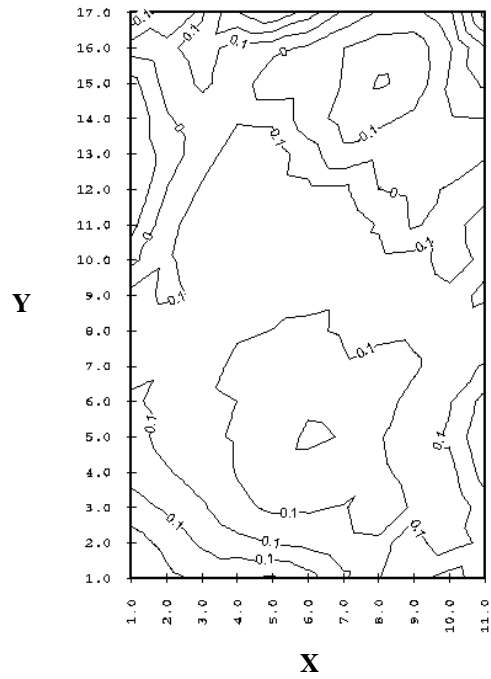


Figure 10e. Relative Error (slice at  $z = 1.5$ )



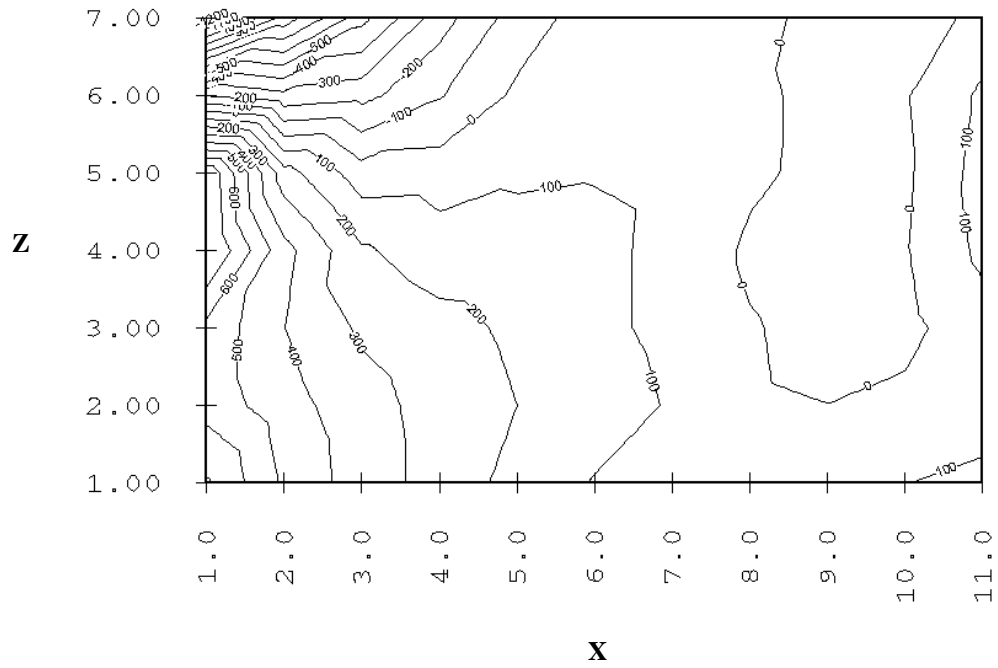


Figure 10h. Approximation Error (slice at  $y = 1.5$ )

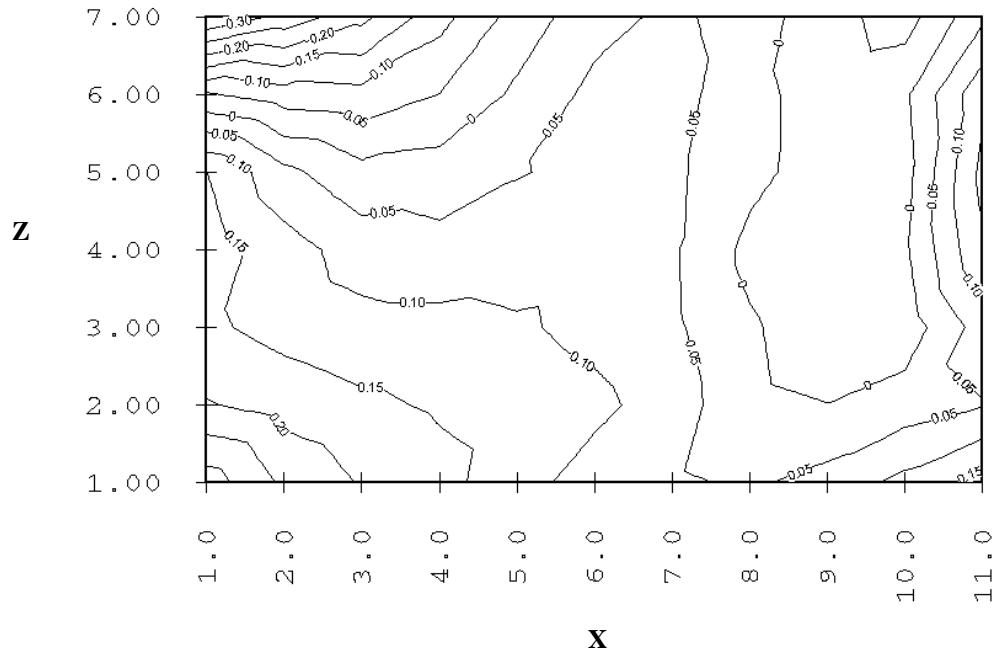


Figure 10i. Relative Error (slice at  $y = 1.5$ )

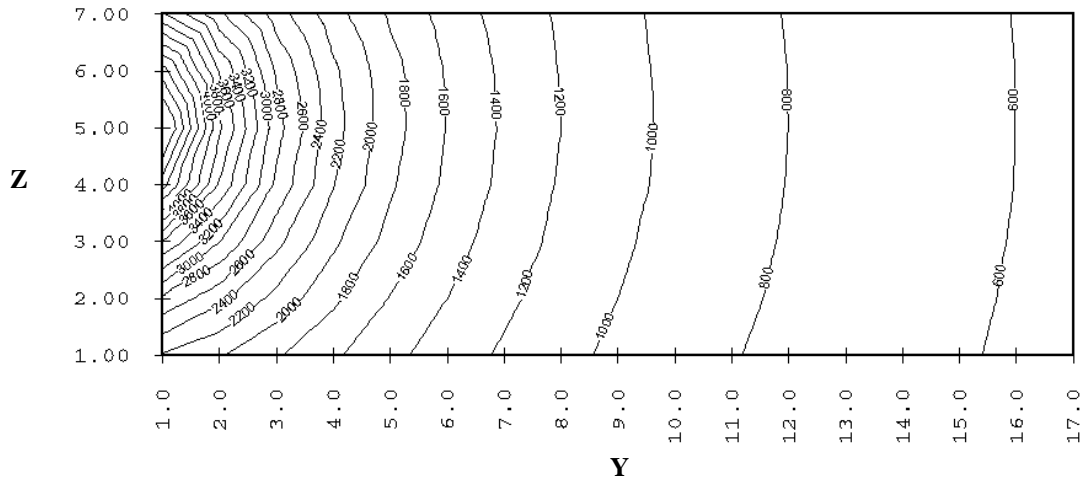


Figure 10j. Exact Solution (slice at  $x = 1.5$ )

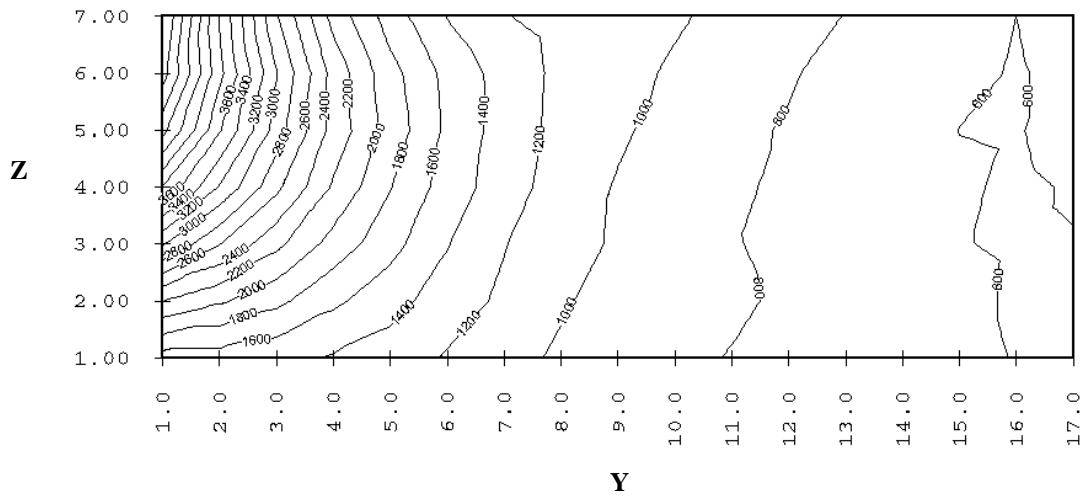


Figure 10k. Approximation Solution (slice at  $x = 1.5$ )

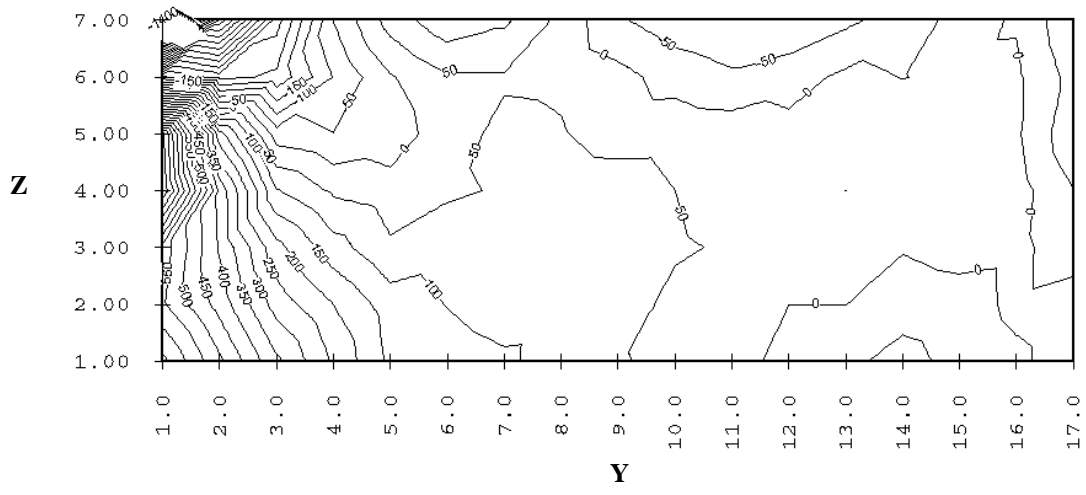


Figure 10l. Approximation Error (slice at  $x = 1.5$ )

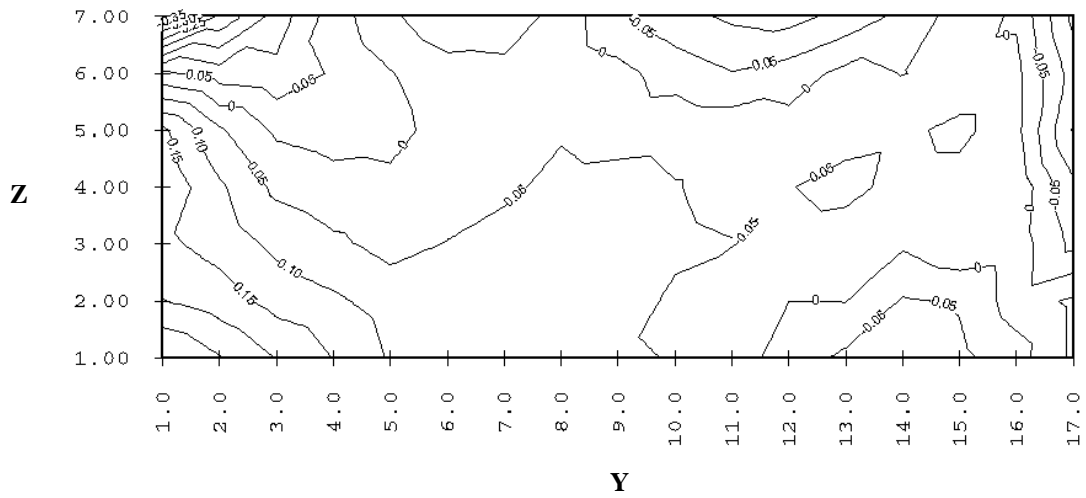


Figure 10m. Relative Error (slice at  $x = 1.5$ )