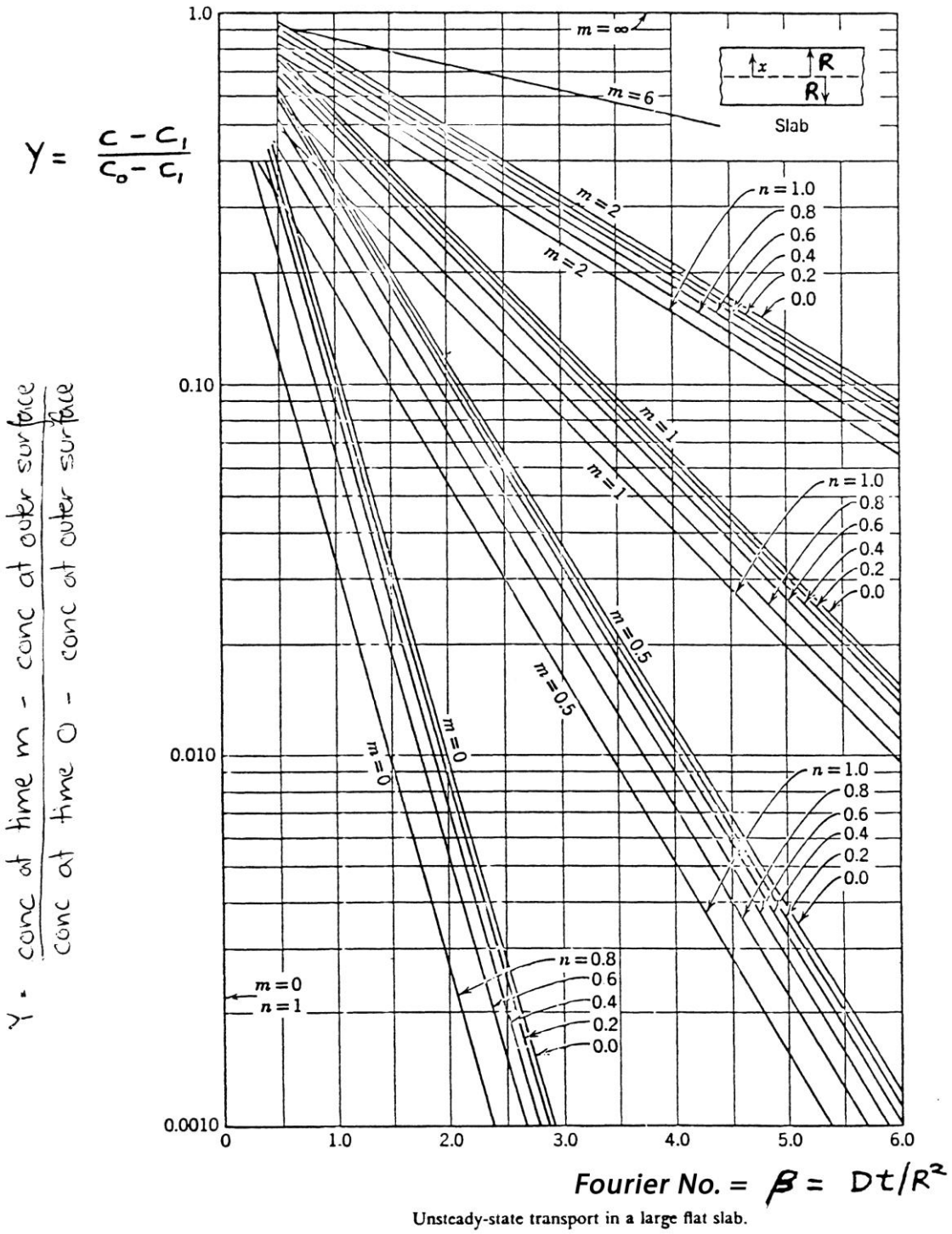
Figure 1

POINT LOCATION IN A SLAB



Unsteady-state transport in a large flat slab.

$n = \frac{x}{R}$

$m = 1/Bi$

Submit with your Answerbook

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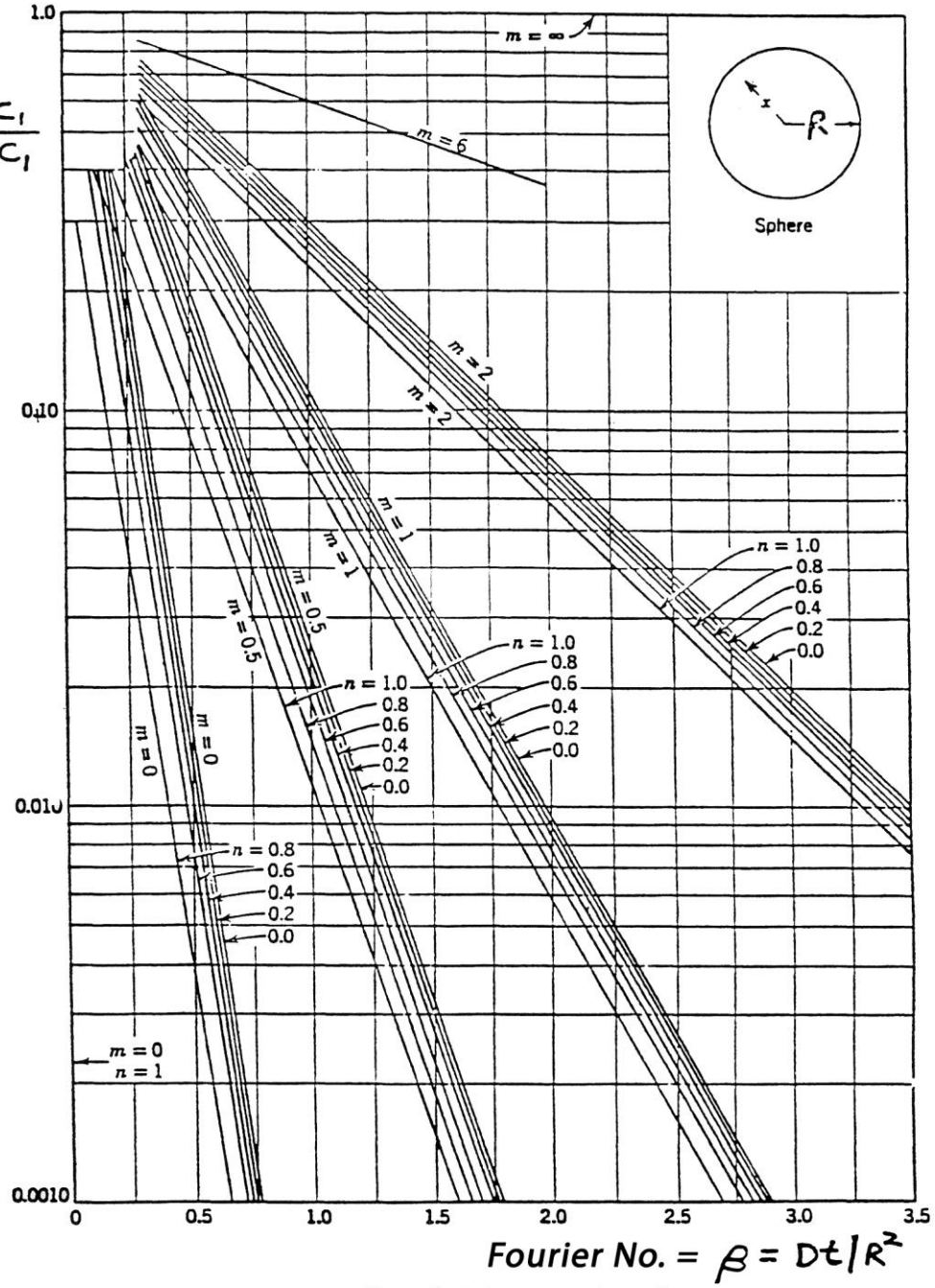
Figure 3

POINT LOCATION IN A SPHERE

$$Y = \frac{c - c_1}{c_0 - c_1}$$

$Y =$ conc at time m − conc at outer surface / conc at time 0 − conc at outer surface



Unsteady-state transport in a sphere.

$$n = \frac{x}{R}$$

$$m = 1/Bi$$

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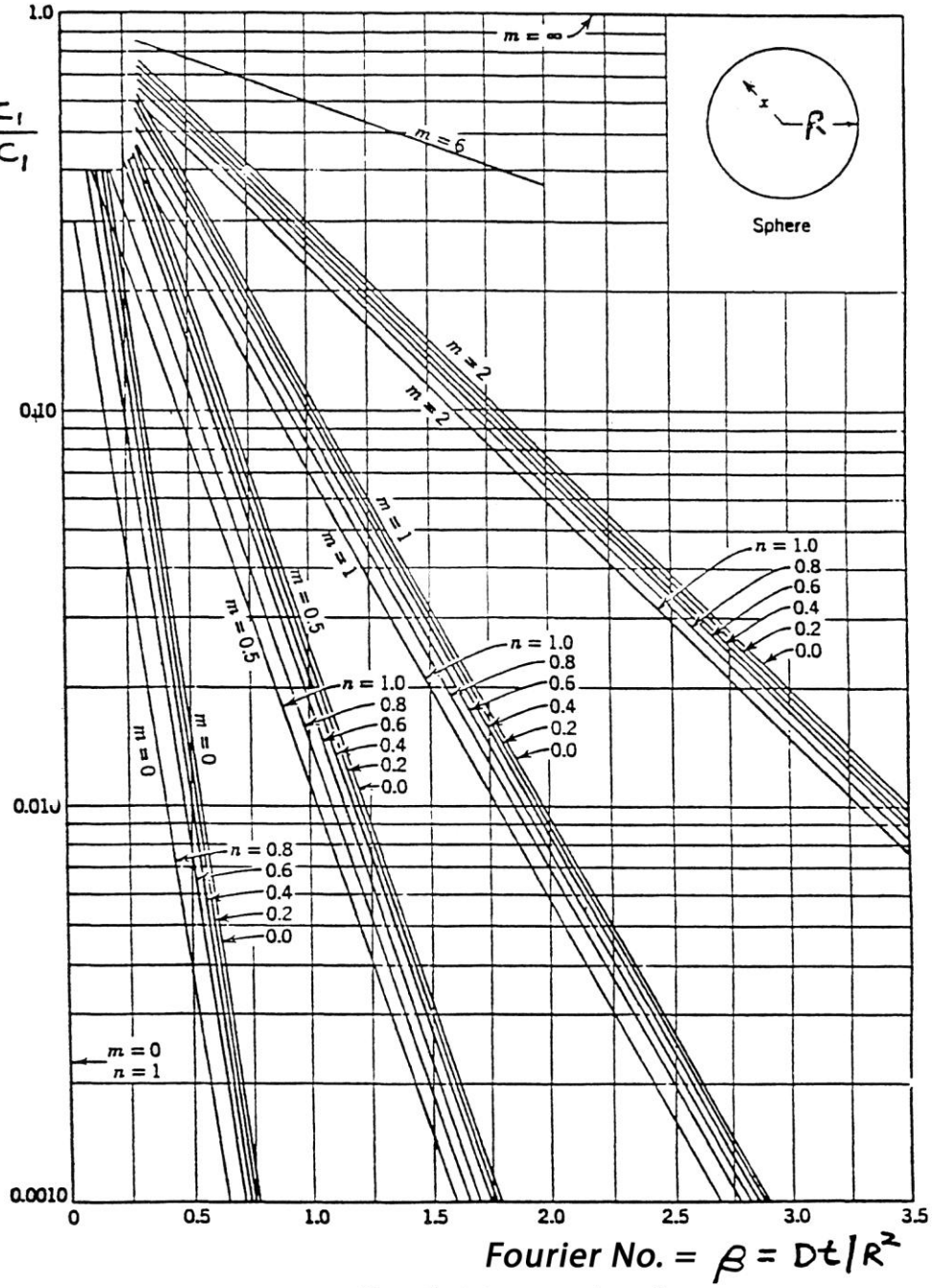
Figure 3

POINT LOCATION IN A SPHERE

$$Y = \frac{c - c_1}{c_0 - c_1}$$

$Y =$ conc at time m − conc at outer surface / conc at time 0 − conc at outer surface



Unsteady-state transport in a sphere.

$$n = \frac{x}{R}$$

$$m = 1/Bi$$

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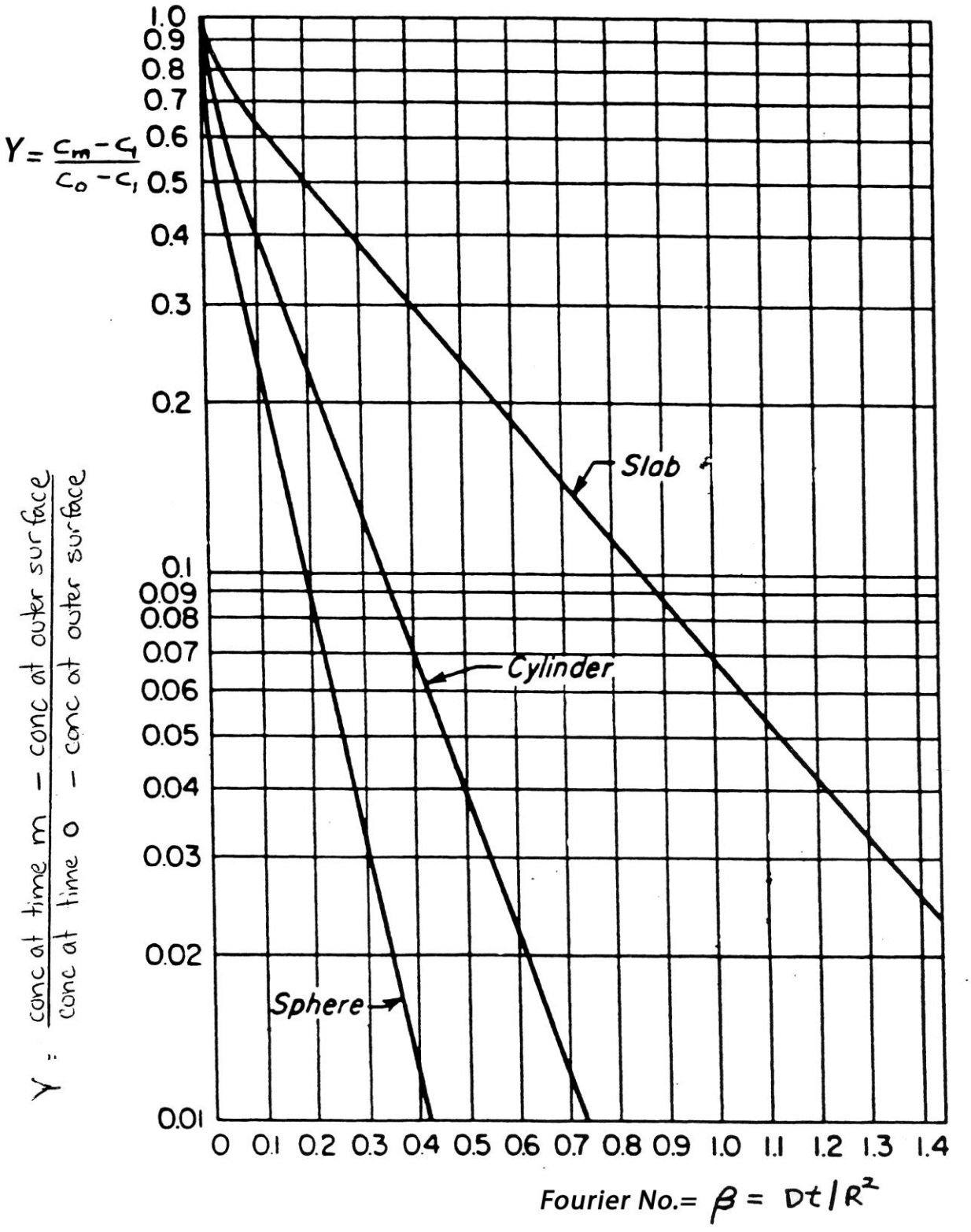
Figure 4



Plot of Y versus β to find mean concentrations indiffusion processes where all resistance to diffusion is within the solid (Bi = ∞)

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