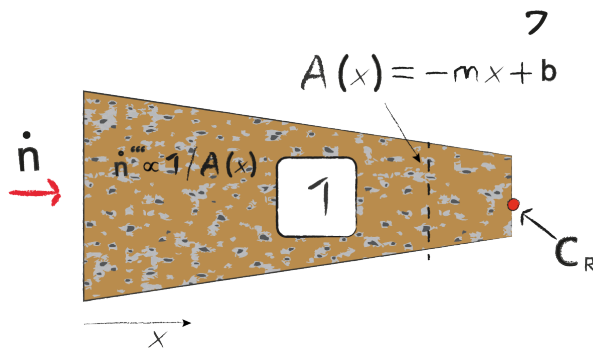


Concentration Profile: Task 7



The image describes a body with linearly decreasing cross section area and a volumetric mass source proportional to the inverse of area. At the left boundary a positive mass flux is given.

1



The imposed mass flux is causing a decreasing concentration profile throughout the entire body. Mass flux is increased by the source towards the right, while the area decreases. Both contribute to an increasing specific mass flux and hence, a steeper concentration profile.