



Fig. 15.1 Nodal model nomenclature.

of the net  $x$ -direction current at the node boundaries at  $x = +\Delta x/2$  and at  $-\Delta x/2$  are defined as

$$J_{gx\pm}^n \equiv \frac{\int_{-\Delta y/2}^{\Delta y/2} dy \int_{-\Delta z/2}^{\Delta z/2} dz \mathbf{n}_x \cdot \mathbf{J}_g(\pm \Delta x/2, y, z)}{\Delta y \Delta z} \quad (15.6)$$

with similar definitions for the surface integrals of net  $y$ - and  $z$ -direction currents at  $\pm \Delta y/2$  and  $\pm \Delta z/2$ , respectively. Surface integrals of the outward and inward  $x$ -directed partial currents at  $\pm x/2$  are defined in terms of the partial currents directed to the right ( $\mathbf{J}_g^+$ ) and to the left ( $\mathbf{J}_g^-$ ), respectively:

$$\begin{aligned} (\bar{J}_{gx\pm}^n)_{out} &\equiv \frac{\int_{-\Delta y/2}^{\Delta y/2} dy \int_{-\Delta z/2}^{\Delta z/2} dz \mathbf{n}_x \cdot \mathbf{J}_g^{\pm}(\pm(\Delta x/2), y, z)}{\Delta y \Delta z} \\ (\bar{J}_{gx\pm}^n)_{in} &\equiv -\frac{\int_{-\Delta y/2}^{\Delta y/2} dy \int_{-\Delta z/2}^{\Delta z/2} dz \mathbf{n}_x \cdot \mathbf{J}_g^{\mp}(\pm(\Delta x/2), y, z)}{\Delta y \Delta z} \end{aligned} \quad (15.7)$$

with similar definitions for surface integrals of partial  $y$ - and  $z$ -direction currents at  $\pm \Delta y/2$  and  $\pm \Delta z/2$ , respectively. The surface integrals of the net current are related to the surface integrals of the partial currents as the net current is related to the partials:

$$\bar{J}_{gx\pm}^n = \pm[(\bar{J}_{gx\pm}^n)_{out} - (\bar{J}_{gx\pm}^n)_{in}] \quad (15.8)$$

# **Solution Manual Nuclear Reactor Physics**

**P. Mohanakrishnan, Om Pal Singh, K.  
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