

### **5.1.1 Introduction**

In this chapter the heat transfer processes within a normally operating reactor core are analyzed and hence the conditions in the core during the normal power-production process are established. It is best to begin with an individual fuel rod and gradually move outward toward an overview of the entire core. For more detailed analyses, the reader is referred to texts such as Gregg King (1964), Tong and Weisman (1970), Todres and Kazimi (1990) and Knief (1992).