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Abstract. In this chapter, we will study some practical nonlinear heat transfer problems, in which radiation is of importance and acts concurrently with other heat transfer mechanisms. Differential equations, governing the physics of the problems will be introduced and finally solved via analytical approaches.

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In a fireplace, heat transfer occurs by all three methods: conduction, convection, and radiation.

Radiation is responsible for most of the heat transferred into the room. Heat transfer also occurs through conduction into the room, but at a much slower rate.

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