	Open Door	Close Door	Cook	Timer Ticks	Timer Runs Out
Idle; Door Closed	Idle; Door Open	Idle; Door Closed	Cooking	Idle; Door Closed	Idle; Door Closed
Idle; Door Open	Idle; Door Open	Idle; Door Closed	Idle; Door Open	Idle; Door Open	Idle; Door Open
Cooking	Interrupted	Cooking	Cooking	Cooking	Completed
Interrupted	Interrupted	Idle; Door Closed	Interrupted	Interrupted	Interrupted
Completed	Idle; Door Open	Completed	Cooking	Completed	Completed

Figure 10.1: Transition table for the microwave. The cells in the first column (other than the blank cell in the top row) list the states. The column headers name the events. The remaining cells represent state transitions in response to events. For example, if the current state is Idle; Door Closed (the left-most column in the second row) and the event is Cook (the fourth column), the state changes to Cooking. Also note that in some states, for certain events, the next state is the same as the current state.