

Section II

Mechanical

Section II addresses the mechanical aspects of swimming pools, specifically circulation and filtration. Chapter 4 discusses the principals of swimming pool circulation. Particular attention should be paid to the concepts of swimming pool “turnovers.” Components of the circulation system are also discussed and include pool outlets, surge tank, hair and lint strainer, pump, filters, heater, chemical feeders, and other pool gauges, valves, and meters. Although good descriptions are given in this chapter for each of the circulation components, trained electricians, plumbers, and pool engineers can offer invaluable experience to novice pool owners and operators.

Chapter 5 deals specifically with swimming pool filtration. The three basic types discussed are sand, diatomaceous earth, and cartridge filters, although a variety within each category are evaluated. The reader should visit a swimming pool dealer to closely examine the various types of filters firsthand. The filter photographs and illustrations provided in Chapter 5 can certainly aid the reader in better understanding filtration, but seeing filters in person is a valuable experience. Filtering rates and backwashing techniques are an important part of the chapter.

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