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The process by which collision occurs can be described by an elegant mathematical framework called neutron slowing down theory. Nuclear reactors can use a wide variety of coolants, but not all coolants are suitable for all reactor types. The chapter shows that heavy water is an excellent neutron moderator and reactor coolant.

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He was the author of many articles and several textbooks, including "Introduction to Nuclear Engineering" and "Nuclear Reactor Theory." Anthony

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Baratta received the B.A/B.S. degrees in physics/applied physics from Columbia University in 1968 and the M.S. and Ph.D. degrees in physics from Brown University in 1970 and 1978, respectively.

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