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Sinopsis

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Intended for a first course in modern physics, following an introductory course in physics with calculus, Modern Physics for Scientists and Engineers begins with a brief and focused account of the historical events leading to the formulation of modern quantum theory, while later chapters delve into the underlying physics. Streamlined content, chapters on semiconductors, Dirac Equation and Quantum Field Theory, and a robust pedagogy and ancillary package including an accompanying website with computer applets assists students in learning the essential material.

Ancillary	list:	*	Online	ISM-
http://textbooks.elsevier.com/web/manuals.aspx?isbn=9780123751126			* Online	SSM-
http://booksite.academicpress.com/Morrison/physics/sm.php		*	Companion	website-
http://booksite.academicpress.com/Morrison/physics/		*		Applets
http://booksite.academicpress.com/Morrison/physics/applets.php				

Develops modern quantum mechanical ideas systematically and uses these ideas consistently throughout the book

Carefully considers fundamental subjects such as transition probabilities, crystal structure, reciprocal lattices, and Bloch theorem which are fundamental to any treatment of lasers and semiconductor devices

Uses applets which make it possible to consider real physical systems such as many-electron atoms and semi-conductor devices