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responsible for most of the key physical technological advances for the 21st century the first quantum revolution gave us new rules that govern physical reality the second quantum revolution will take these rules and use them to develop new technologies in this review we discuss the principles upon which quantum technology is based and the tools required to develop it the second quantum revolution refers to a contemporary wave of advancements and breakthroughs in the field of quantum physics that extends beyond the early developments of quantum mechanics that occurred in the 20th century one crucial aspect of this revolution is the deeper exploration and practical application of quantum entanglement

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