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LOW DIMENSIONAL SYSTEMS AND NANOSTRUCTURES

• Reduced Dimension If The Dimension Of The Sample Is Lower Than A Characteristic Length (e.g. Mean Free Path For Transport, Fermi Wave-length For Quantization Or Exciton Bohr Radius In Semiconductors). 9 • Dimensionality Definitions 0D: Quantum Dot $L_0 = \lambda$, Characteristic Length 1D: Quantum Wire 2D: Quantum Well $L_0 > L$, $i=1, n \rightarrow (3 - N \dots 1\text{th}, 2024$

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Department Of Materials Science And Engineering, Department Of Physics, And Frederick Seitz Materials Research Laboratory, University Of Illinois At Urbana-

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