

# 2DEG

- 2DEG = 2 Dimensional Electron Gas
- 2DHG = 2 Dimensional Hole Gas

A two-dimensional electron gas (2DEG) is a gas of electrons free to move in two dimensions, but tightly confined in the third. This tight confinement leads to quantized energy levels for motion in that direction, which can then be ignored for most problems. Thus the electrons appear to be a 2D sheet embedded in a 3D world. Such a construct of holes is called a two-dimensional hole gas (2DHG), and such systems have many useful and interesting properties.

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