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on technology, particularly for  
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electron or hole system; Split gates and one-dimensional electron gases; References; Introduction. The two-dimensional electron gas (2DEG) formed in a GaAs-AlGaAs heterostructure is a very fruitful system for investigating quantum and interaction effects. Electrons are confined to a very narrow layer, becoming effectively two-

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A two-dimensional electron gas (2DEG) is a scientific model in solid-state physics. It is an electron gas that is free to move in two dimensions, but tightly confined in the third. This tight confinement leads to quantized energy levels for motion in the third direction,

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which can then be ignored for most  
problems. Thus the electrons appear to

be a 2D sheet embedded in a 3D world.

## **Two-dimensional electron gas - Wikipedia**

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