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Abstract

The State of the Art of Graphene and Its Potential Technological Applications in Electrical Engineering †

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The world of modern technology is constantly developing. This reality is motivated by the discovery of new materials, which, when used, provide an improvement in the performance of the devices with which they are manufactured. One recently discovered materials that is revolutionizing the world of modern technology is graphene. Based on the state of the art regarding graphene, as a result of diversified bibliographic research, this article aims to explain some of the characteristics of graphene, its application potential, some production methods and current challenges associated with its production. According to the exposition made in that article, graphene, due to its optical, mechanical and electrical characteristics, appears as a material to be used in the areas of nanotechnology, renewable energies, aviation, among other sectors. It is evident that the use of graphene could result in advantages for improving people's quality of life, generating economic growth, higher employment rates and business opportunities.

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