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Interactive Learning Solid State with Quantum Mechanical programs SABINA RUIZ-CHAVARRIA, PABLO DE LA MORA, Fac. de Ciencias, Universidad Nacional Autonoma de Mexico — Nowadays Solid State can be learnt interactively with Quantum Mechanical programs. Here we present four systems Na, graphite, diamond and MgB_2. With these programs their properties, charge density, band structure, density of states can be obtained and with the help of plotting programs their particular characteristics can be studied; type of bond (covalent, ionic, metallic, van der Waals), electrical properties (conductivity, anisotropy). In this form the student can interactively learn to ask questions and obtain answers about the properties of crystalline solids.

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