

Electronic Properties Group

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STRuctural and Electronic (STREL)

- Windows application
- Modular
- .NET Framework of Microsoft
- Build in visualization tools

STRuctural and Electronic (STREL)

- Build atomistic models of nanostructures or supercells for defects
- Find the lowest energy structure
- Calculate strains and stresses
- Obtain the electronic states
- The strength of the optical transitions

Nanostructures systems

- Quantum Dots
- Quantum wires
- Surfaces
- Voids

Systems

- Si/Ge
- GaN/AlN
- Alloys
- Surfaces
- NEMS

Methods

- Ab-initio
- Semiempirical
- Finite Elements

Properties

- Mechanical Properties
- Electronic states
- Optical transition strength
- Optical properties
- Conductance

ICT in Education

Assistive Technologies

- Of the students with disabilities
- Materials education
- Clickers
- Real and/or remote experiments with the computer

The background of the image is a light blue surface covered with numerous small, clear water droplets of varying sizes. The droplets are scattered across the entire frame, creating a textured, glistening effect. The lighting is soft, highlighting the rounded tops of the droplets and casting subtle shadows. In the center of the image, the words "Thank you" are written in a clean, black, sans-serif font. The text is centered both horizontally and vertically, standing out clearly against the busy, textured background.

Thank you

