

Unnecessarily Complicated Research

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The development of software for new applications requires extensive testing. Several methods for determining likely Bravais lattice types are already available. In creating a new one, we realized that their publications seldom indicate that extensive testing was done. Usually, a few examples of unit cells from the literature are displayed. We decided that Sella, a new method we are developing, should have the kind of testing that software engineering requires. Starting from an example unit cell, in the space S_6 a cloud of points was generated. The points are designed to fall at a prescribed small distance from the example cell. The perturbed unit cells are then reduced; the resulting reduced cloud should show continuity and reasonable distances from their corresponding reduced cell.