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Least Action Principle of Crystal Formation of Dense Packing Type & the Proof of Kepler's Conjecture

By Wu Yi Hsiang
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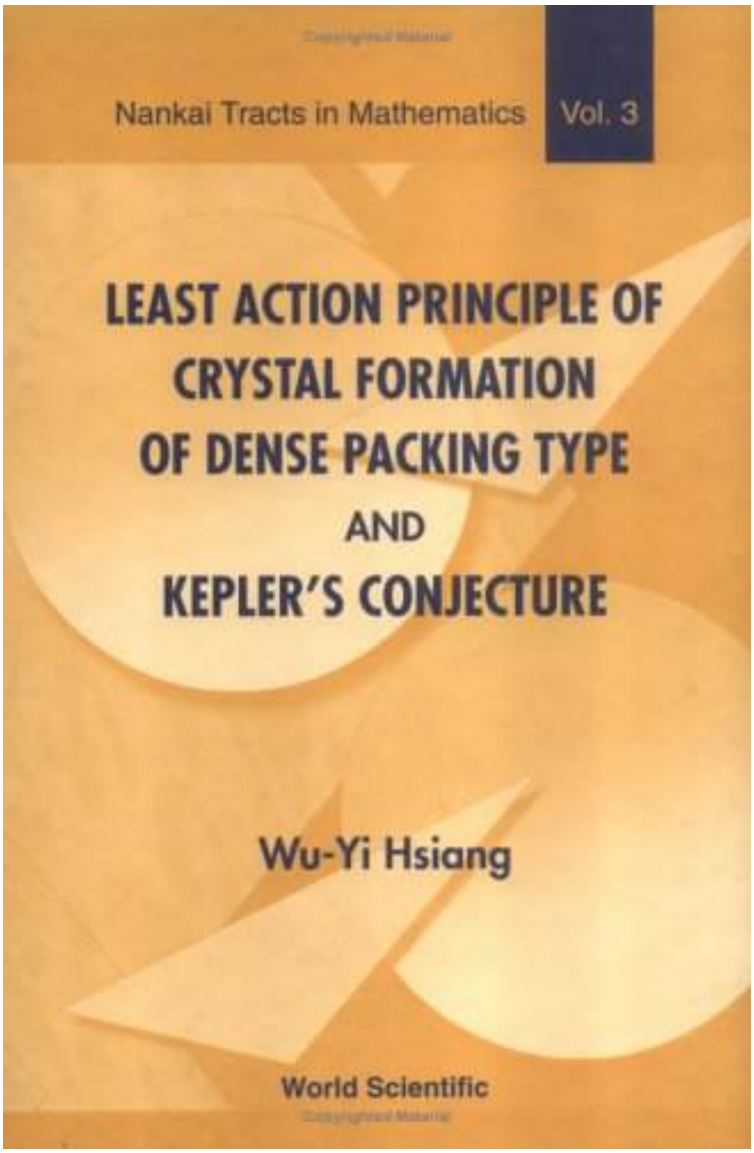

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Least Action Principle of Crystal Formation of Dense Packing Type & the Proof of Kepler's Conjecture:

The dense packing of microscopic spheres i e atoms is the basic geometric arrangement in crystals of mono atomic elements with weak covalent bonds which achieves the optimal known density of B acirc 18 In 1611 Johannes Kepler had already conjectured that B acirc 18 should be the optimal density of sphere packings Thus the central problems in the study of sphere packings are the proof of Kepler s conjecture that B acirc 18 is the optimal density an The book presents an expostition of the ideas suggested by W Y Hsiang to prove this interesting and difficult conjecture Mathematics Abstracts

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