Realization of common platform technology, facilities, and equipment that creates innovative knowledge and products

Multiscale Multimodal Materials Structure Analysis System

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Summary :

Multi-scale information from an atomic scale to real materials To develop innovative materials is indispensable for materials innovation. However, several measurement methods have been combined to extract multi-scale data based on the experience and intuition of experts.

We develop the multi-scale and multi-modal structural analysis system with mathematical science to integrate measurement data of different scales and different modalities. By using this system, multi-scale and multi-modal structural information can be acquired at high throughput. The system feedbacks knowledge such as materials design guidelines and the productivity in research and development of materials development can be dramatically increased.



