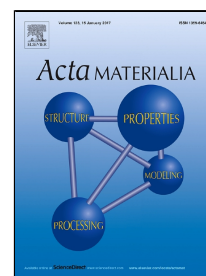


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An Origin of Functional Fatigue of Shape Memory Alloys

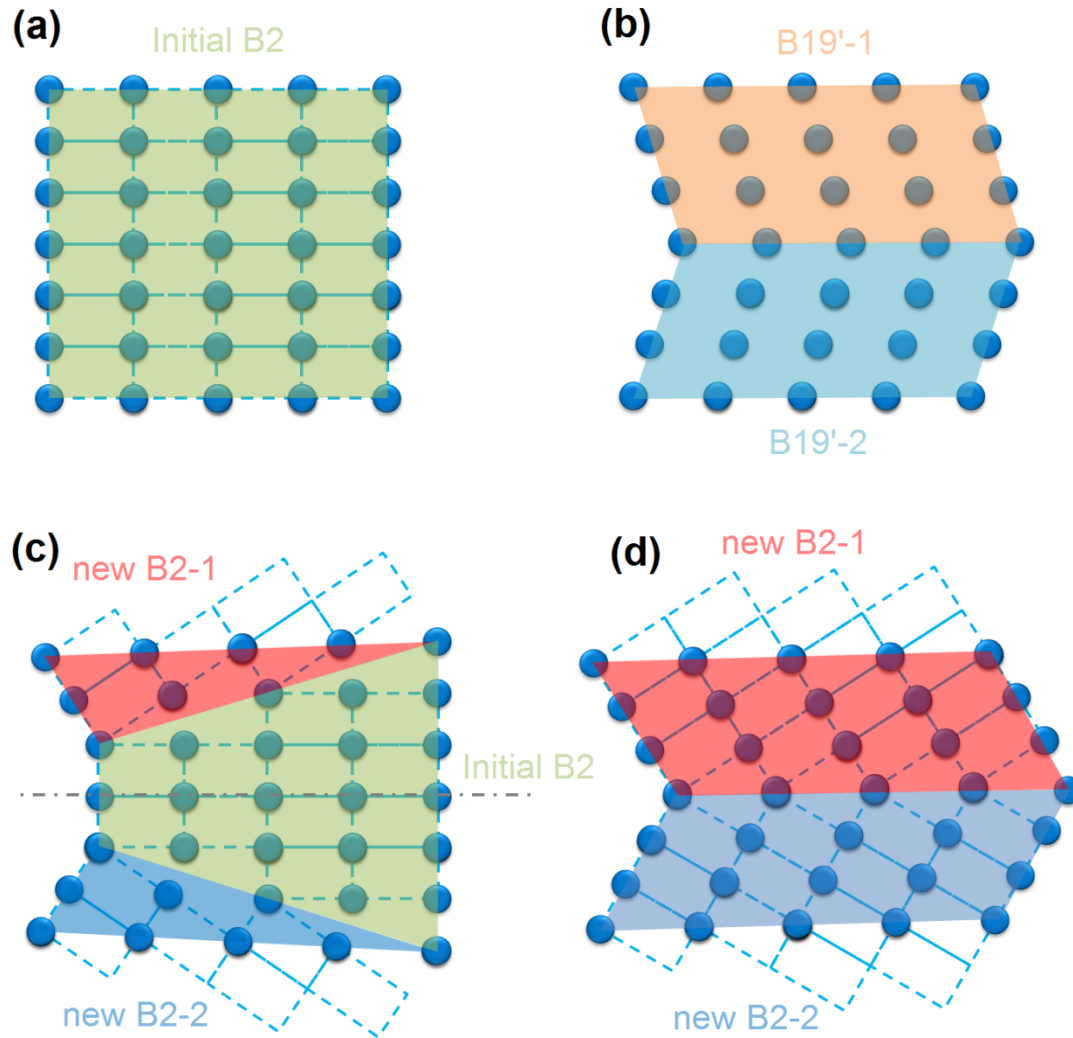
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Schematic drawing of the formation of special grain boundaries in B2 during transformation cycling ($\{011\}$ cross-section of B2 with only one set of sub-lattice atoms plotted): (a) perfect crystal in initial B2 state; (2) compound twinning in B19' states; (3) $\Sigma 9$ boundaries between the initial B2 and new B2 states; (4) $\Sigma 3$ boundary between two new B2 states.

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