

Abstract Submitted  
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**Monte Carlo Simulations of Amorphous Silicon**<sup>1</sup> DAVE GILSON,  
Penn State Erie, BLAIR TUTTLE, Penn State Erie — A computational algorithm  
has been developed for simulating amorphous silicon. The algorithm employs a  
Monte Carlo bond switching scheme to anneal and cool the system without creating  
dangling bonds. A variety of topological parameters are examined as a function of  
simulation cell size.

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