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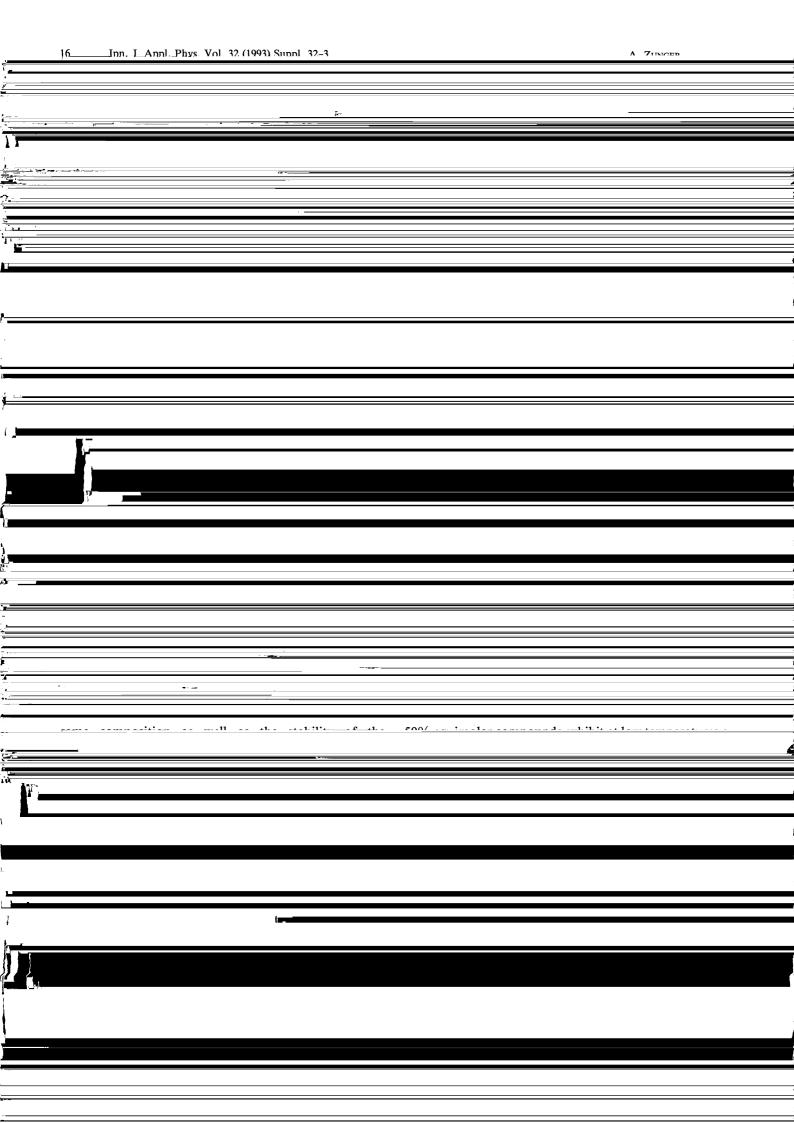
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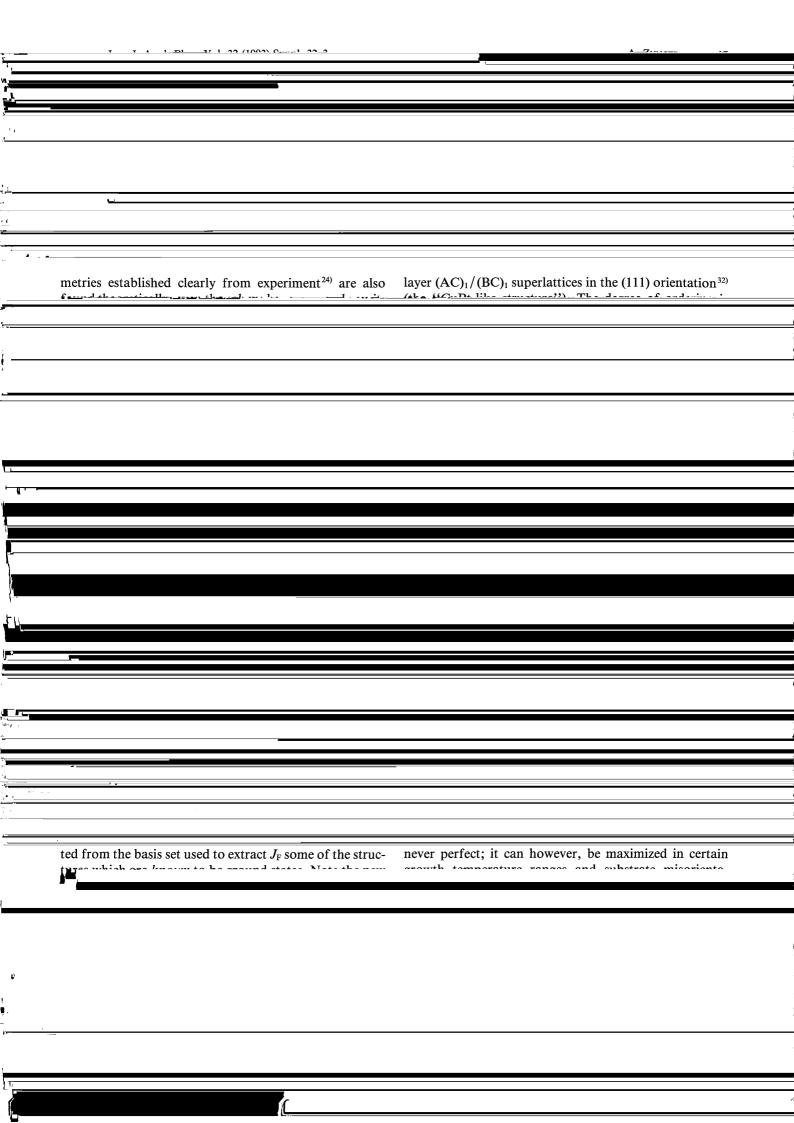
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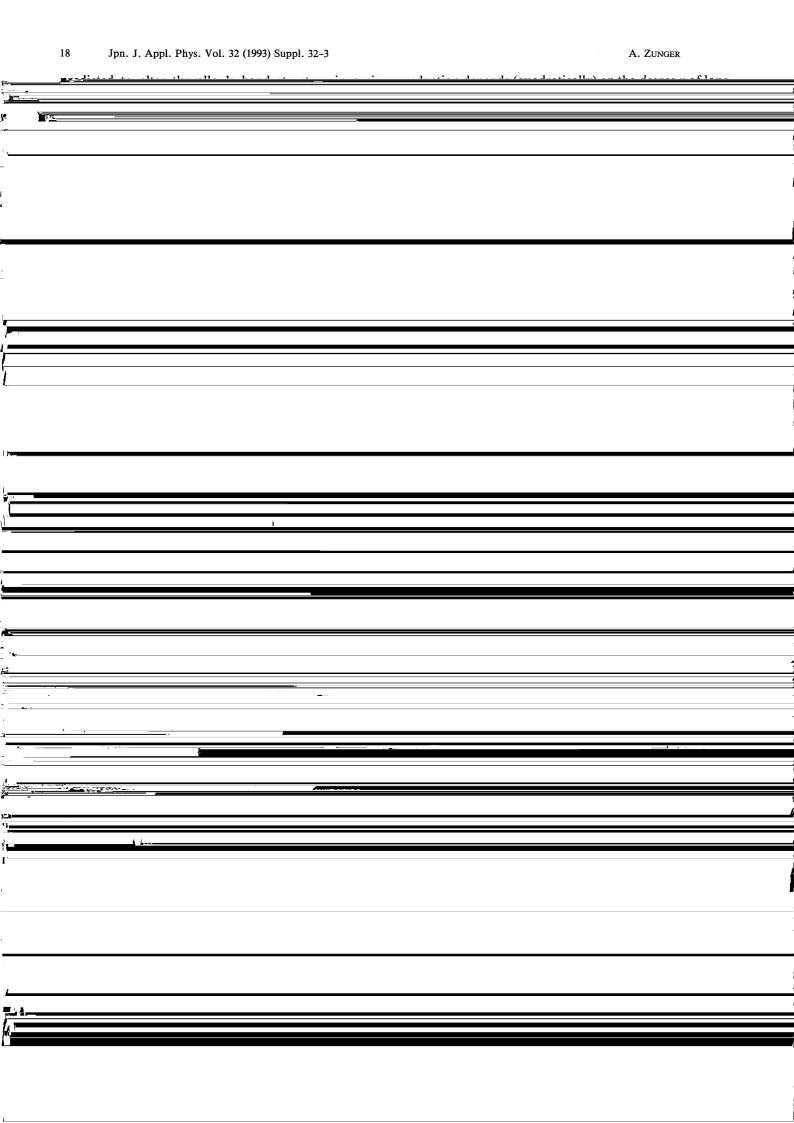
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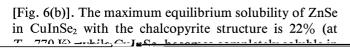
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	Predictions of New Semiconductor of Transition Metal Structures and Their Properties		
	Alex Zunger  National Renewable Frency Laboratory, Golden, Colorado 80401, USA		
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	-		
	(Received September 11, 1993)		
	I describe how one can use the "Cluster Expansion Method" to predict systematically what are the thermody	namical-	
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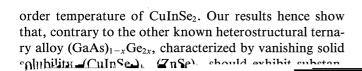




grown on GaAs<sup>42)</sup> (rather than the alloy). There are now The terms in brackets are the nearest-neighbor terms of experimental confirmations of this idea.<sup>43)</sup> (ii) Use of eq. (3). All odd terms were omitted, assuming that the strain to convert the indirect gap Si<sub>n</sub>Ge<sub>n</sub> SL grown on Si Hamiltonian is invariant under the A↔B interchange. Thin the LADW mathed we have calculated the









 D. M. Wood and A. Zunger: Phys. Rev B 34 (1986) 4105.
 A. E. Carlson, D. M. Wood and A. Zunger: Phys. Rev. B 32 24) P. M. Hansen: Constitution of Binary Alloys (McGraw-Hill, New York, 1958).