

**DALES, SCENERY, FISHING  
STREAMS, AND MINES OF  
DERBYSHIRE, AND  
SURROUNDING COUNTIES,  
HISTORICAL AND GEOLOGICAL**

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Dales, scenery, fishing streams, and mines of Derbyshire, and surrounding counties, historical and geological by W. Adam

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**W. ADAM**

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HISTORICAL AND GEOLOGICAL**



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P R E F A C E .

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THIS little book originated entirely in the fact stated at the commencement. Seeing that a stranger was so impressed with the dales through which he was led; and committing the first rough sketch of our route to the inspection of a friend of mine, I was induced to continue it; and now it is completed, I can only say I carefully went over every step of the ground to make my notes, in order to give those precise directions and that information so needful to the stranger, artist, angler, or tourist, who may be pleased to take a summer's ramble over Derbyshire.— I should add that I have been much encouraged in the prosecution of the work, by the number of copies ordered by my friends and the public, I may say without solicitation; and I here beg to tender them my most grateful thanks, and hope it may meet with their approbation, and that of the public generally.

WILLIAM ADAM.

*Matlock*, 1861.

1. The first part of the paper discusses the general properties of the system under consideration. It is shown that the system is stable and that the energy is bounded from below. The energy spectrum is then calculated, and it is found that the system has a discrete spectrum of energy levels. The energy levels are shown to be independent of the system size, which is a characteristic feature of a system with a finite number of degrees of freedom.

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3. The third part of the paper discusses the properties of the system in the limit of large system size. It is shown that the system exhibits a phase transition at a certain temperature, which is the same as the phase transition temperature in the finite system case. The phase transition is characterized by a change in the order parameter, which is a measure of the degree of order in the system. The order parameter is shown to be zero in the disordered phase and non-zero in the ordered phase. The phase transition is shown to be first order, which means that there is a discontinuity in the order parameter at the transition temperature.

4. Finally, the paper discusses the properties of the system in the limit of small system size. It is shown that the system exhibits a phase transition at a certain temperature, which is the same as the phase transition temperature in the finite system case. The phase transition is characterized by a change in the order parameter, which is a measure of the degree of order in the system. The order parameter is shown to be zero in the disordered phase and non-zero in the ordered phase. The phase transition is shown to be first order, which means that there is a discontinuity in the order parameter at the transition temperature.