



**Foundations of the Non-Linear Mechanics of  
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*L. I. Sedov*

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# Foundations of the Non-Linear Mechanics of Continua: International Series of Monographs in Interdisciplinary and Advanced Topics in Science and Engineering, Vol. 1

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## **Foundations of the Non-Linear Mechanics of Continua: International Series of Monographs in Interdisciplinary and Advanced Topics in Science and Engineering, Vol. 1** L. I. Sedov

International Series of Monographs on Interdisciplinary and Advanced Topics in Science and Engineering, Volume 1: Foundations of the Non-Linear Mechanics of Continua deals with the theoretical apparatus, principal concepts, and principles used in the construction of models of material bodies that fill space continuously. This book consists of three chapters. Chapters 1 and 2 are devoted to the theory of tensors and kinematic applications, focusing on the little-known theory of non-linear tensor functions. The laws of dynamics and thermodynamics are covered in Chapter 3.

This volume is suitable for persons who intend to do research on the development of the theory of dynamics and thermodynamics or solve specific theoretical problems on the motion of a continuous medium with finite deformations.

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