

# Continuum Mechanics and Thermodynamics of Matter

S. Paolucci



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Aimed at advanced undergraduate and graduate students, this book provides a clear unified view of continuum mechanics that will be a welcome addition to the literature. Samuel Paolucci provides a wellgrounded mathematical structure and also gives the reader a glimpse of how this material can be extended in a variety of directions, furnishing young researchers with the necessary tools to venture into brand new territory. Particular emphasis is given to the roles that thermodynamics and symmetries play in the development of constitutive equations for different materials. Continuum Mechanics and Thermodynamics of Matter is ideal for a one-semester course in continuum mechanics, with 250 end-of-chapter exercises designed to test and develop the reader's understanding of the concepts covered. Six appendices enhance the material further, including a comprehensive discussion of the kinematics, dynamics and balance laws applicable in Riemann spaces.



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