THERMAL PROPERTIES OF MATTER

INTRODUCTION

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When a substance undergoes the process of heating, it undergoes a myriad of alterations. Among these alterations, the substance's temperature might elevate, concurrent with either an expansion or contraction of its volume. Alternatively, the substance may undergo a transition into a liquid or a vapor state without a corresponding change in temperature. This chapter delves into an exploration of the diverse thermal properties exhibited by matter, elucidating several pivotal processes associated with thermal energy. Initially, we will scrutinize the phenomenon of thermal expansion, a crucial aspect with widespread implications in daily experiences. Subsequently, we will delve into the intricacies of phase changes and latent heat. Finally, the chapter will culminate in an examination of the intriguing phenomenon of heat transfer.