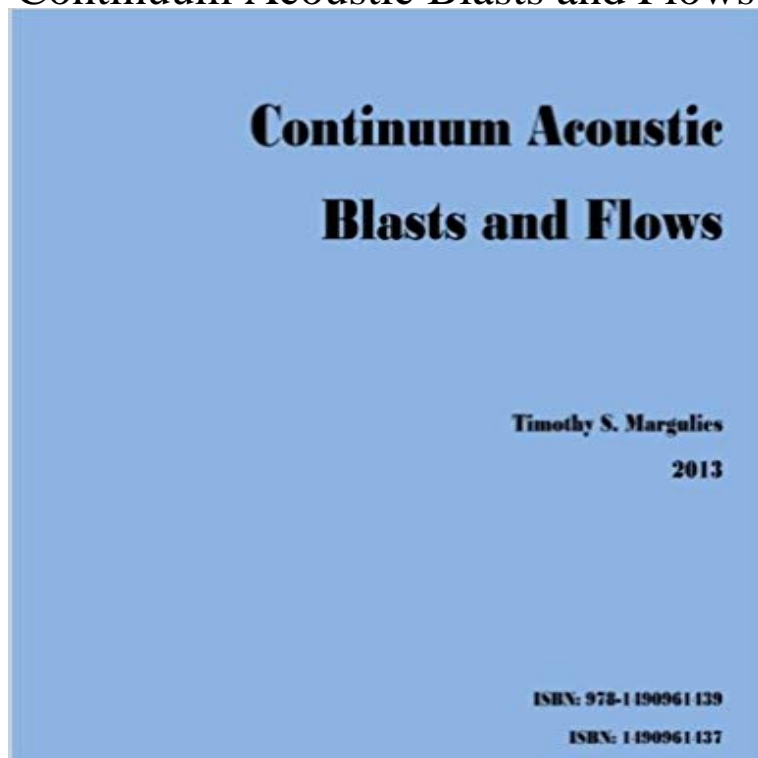


Continuum Acoustic Blasts and Flows



This collection of notes, manuscripts, and presentation material addresses an understanding of the physical acoustics and flows of fluids in several areas emphasizing safety viewpoints. These research notes begin with atomic blasts; however, noise impacts occur in daily experience with civilian firearms, loud trombone playing, slamming a door, a water skier tipping over and slamming the water, and use of fireworks in celebrations. Here a classical blast model is revisited with elementary approaches first and then further analyses embellish onto intermediate and advanced topics. The aim is to introduce ideas and several research tools to formulate analyses to help make better informed decisions with the best mathematics, statistics, and science information to benefit people and the environment affected.

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