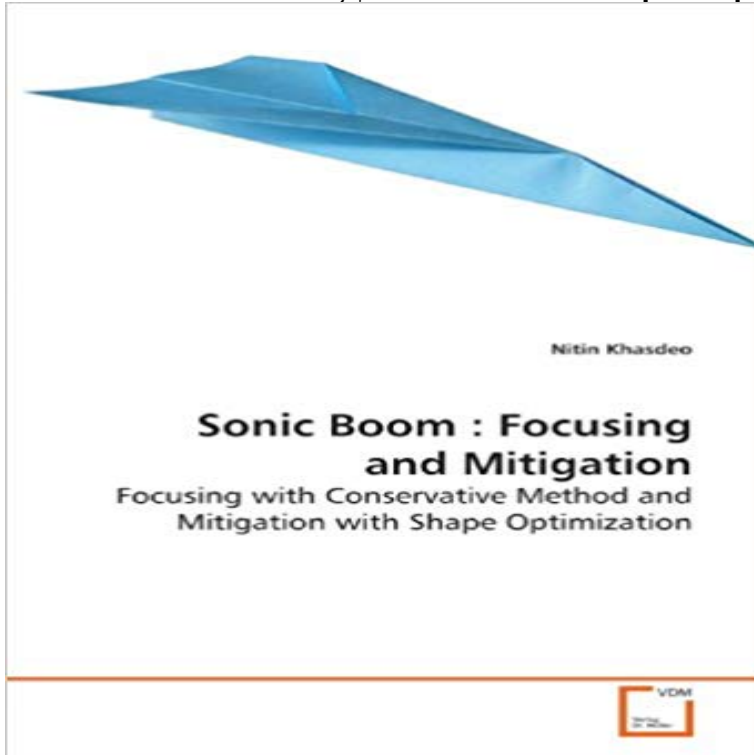


Sonic Boom : Focusing and Mitigation: Focusing with Conservative Method and Mitigation with Shape Optimization



Supersonic travel can significantly save time and cost with non stop flight from the USA to countries in Asia, Europe and Japan. It is understood that the development of high speed supersonic jets is increasingly demanded in the commercial and military sectors. Supersonic travel over land would be a reality only if new aircrafts are designed such that they produce quieter ground sonic booms. Designers are compelled to work on CFD modeling and aerodynamic shape optimization so that they can address the boom constrained imposed by the FAA while not degrading the aerodynamic performance. The computational tools that can predict sonic boom focusing effect with much higher accuracy are in great demand for supersonic transport aircraft research. Research interests for the current work is to develop computational methods to predict sonic boom focusing effects and carry out the parametric studies. In the current work a shape optimization study is also carried out for mitigating the sonic boom ground signature. The book will thus provide important reading for scientist, research scholars and students with an interest in supersonic transport aircraft research, design and development.

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