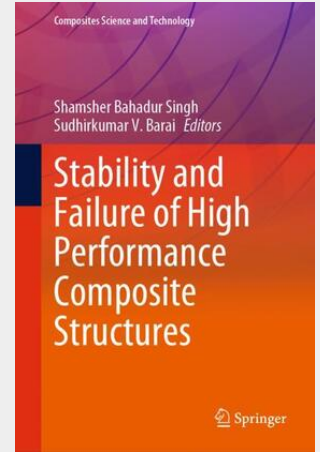


## Stability and Failure of High Performance Composite Structures

This book is written to introduce the application of high-performance composite materials such as fiber reinforced polymers, functionally graded composites, and sustainable fiber reinforced composites for development of thin-walled plated structures, beams, girders, and deck structures subjected to different kinds of loads. This book also includes test cases and its validation with finite element method using general purpose commercial computer software. Moreover, the book also deals with design methodology of advanced composite materials based on different applications. The comprehensive overview of the state-of-the-art research on the high-performance composite structures dealing with their stability, response, and failure characteristics will be of significant interest to scientists, researchers, students, and engineers working in the thrust area of advanced composite structures. This book is also helpful for Ph.D. candidates for developing their fundamental understanding on high-performance composite structures, and it will also be appropriate for master- and undergraduate-level courses on design of composite structures especially for Civil Engineering Infrastructures.

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