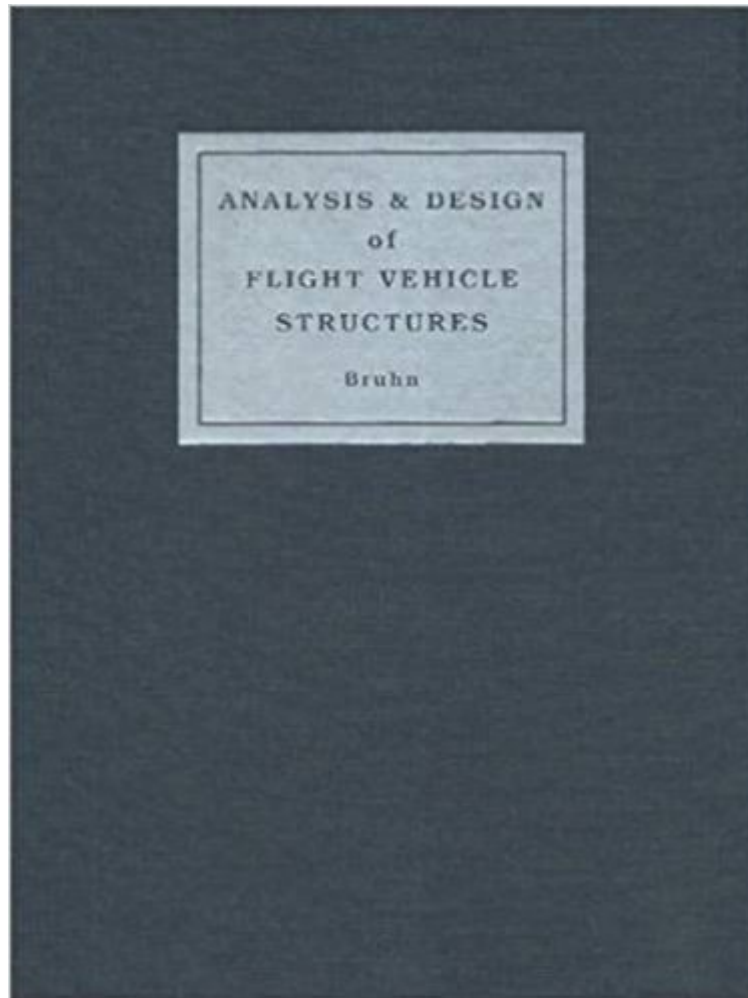




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Analysis And Design Of Flight Vehicle Structures



Synopsis

Book by Bruhn, E. F.

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While many of the methods in the book have been overshadowed by Finite Element Analysis, they provide valuable insight into the fundamentals of aircraft design and an appreciation for the men and women that designed aircraft before John Vincent Atanasoff and Clifford Berry invented the electronic digital computer at Iowa State University. Today you won't find many aircraft stress analysts using the Moment Distribution (Hardy Cross) Method, Slope Deflection Method, Method of Elastic Weights or the Methods of Dummy Unit-Loads, Area Moments, Virtual Work, Influence Coefficients ... but working on an example in this book is good, clean fun and frustration ... for the "geek" in all of us. Some of the standard cliches apply to Analysis and Design of Flight Vehicle Structures. It is the analyst's "best friend" ... "a classic" ... "finer than frog hair split four ways" ... "the stress analyst's Bible" ... that "kicks [...] and takes names" ... and has "withstood the test of time". If you like puzzles, you will love this book. It contains more aircraft stress analysis examples than you can solve in one lifetime. Many examples remind me of a combination of crossword puzzle, Jumble and Sudoku only more difficult ... and less fun. Examples range in difficulty from elementary ... to more painful than a root canal without Lidocaine done by your mother-in-law before electricity. The problems are condensed. The book could easily be expanded to a five volume set. I would organize it differently ... but as Marge and Homer Simpson might say, "It's easy to criticize ... and FUN TOO!" While there are many minor errors or "typos" in the book ... a few worth mentioning are: Page

B1.

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