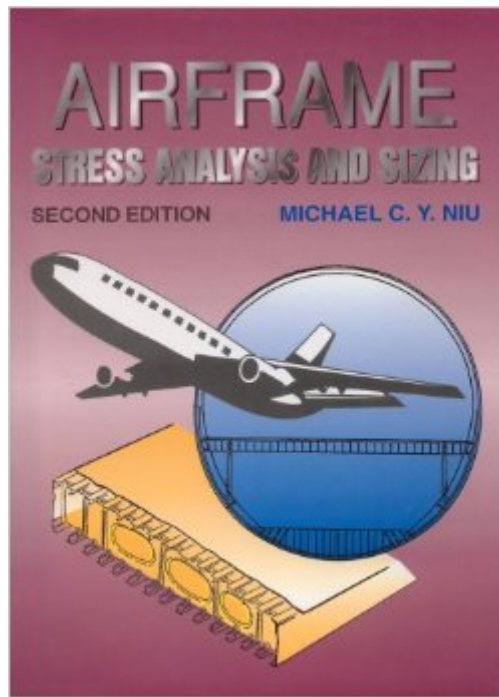


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# Airframe Stress Analysis & Sizing



# Synopsis

Book by Michael Niu

## Book Information

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## Customer Reviews

I'm a french stress engineer and i'm working on an Airbus project. This book is helpfull to size a part or an assemblie and to avoid one failure case. But be carefully there are some mistakes in the formulas or in the graph so please compare with an other book like the Bruhn to avoid some big mistake.

Michael Niu has once again produced a very reasonable book. This book is destined to become a standard reference and will complement the other classic in the industry very well (Bruhn's Analysis and Design of Flight Vehicle Structures). The book covers just about most topics required to perform effective practical stress analysis. Again as with Bruhn this is a bit of a cookbook, but in many instances that's what is required to design practical aerospace structures. Some of the material is a repeat of what's available in Bruhn; however, there is plenty of additional material which makes this book worth having. The big drawback of this book is that there are a lot of mistakes in the formulas, etc. This was likely a result of trying to rush the book to print. I bought the 1st edition and will likely have to wait until the 3rd or 4th edition before using this as a real reference. As pointed out in the other reviews, most of the material in this book needs to be cross referenced with other books of company manuals before being used. Having said this the book can still be very useful and one

needs to remember that practical stress analysis books are scarce and so Niu is to be congratulated just for trying to put something down on paper.

This book is a collection of information and data that already exist in Bruhn. I ordered my book from the author before its general release and it came with 4 or 5 pages of errata with it. There are so many more errata I have found since then. I have found this book to be useful only for the methodology of its examples; otherwise, I go back to its source (Bruhn).

I found Mr. Niu's Airframe Stress Analysis & Sizing to be a decent reference text for practicing stress analysts. It is not as comprehensive or as detailed as the industry-standard Bruhn, but it is more organized, with modernized charts, tables, and figures. I did not encounter the rumoured myriad of errata, so all in all I found it a useful complementary text to assist me with solutions to my daily analysis problems.

Whoever is not aware of this book in the aeronautical stress analysis field, then is not from this world. Nevertheless, and despite the erratas (check google), the bible is still the Bruhn. This book is a good complement. It would be interesting to find similar publications for composites...

Book is a solid reference, although many corrections need to be made. Been familiar with book for several years finally broke down and bought my own copy.

This was a good book on airframe stress analysis. some of it was not layed out very well but held great information

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