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Information and Data Chunyun Niu , Michael Chun-Yung Niu Adaso Adastra Engineering Center , 1992 - Airframes - 664 pages

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1999. 612pp. Illustrated. \$65. ISBN 962-7128-09-0.

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Composite Airframe Structures: Michael Chun-Yung

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Niu ...

During 1966 and 1968, he served as stress engineer to B727, B747, etc. at The Boeing Company in Seattle. Prof. Niu is the author of the texts, AIRFRAME STRUCTURAL DESIGN (Second Edition, 1999), COMPOSITE AIRFRAME STRUCTURES (1992), and AIRFRAME STRESS ANALYSIS AND SIZING (Second Edition, 1999).

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16th International Conference on Composite Structures ICCS 16 A. J. M. Ferreira (Editor) FEUP, Porto, 2011 FUTURE DESIGN FOR COMPOSITE SPACE AND AIRFRAME STRUCTURES R. Degenhardt * †, A. Kling * * DLR, Institute of Composite Structures and Adaptive Systems, Lilienthalplatz 7, 38108 Braunschweig, Germany

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FUTURE DESIGN FOR COMPOSITE SPACE AND AIRFRAME STRUCTURES

The course intends to advance the technical understanding and practical knowledge of advanced composites, emphasizing the design and manufacture to achieve a sound airframe structure. All aspects of composite design will be discussed in a thorough and rigorous fashion, which includes guidelines, observations, design factors, pros and cons of design cases, and troubleshooting techniques.

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A computerized algorithm to generate cross-sectional dimensions and fiber orientations for composite airframe structures is described, and its application in a wing structural synthesis is established.

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