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structure instead of a
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one, and also it has a
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intended to advance the
technical understanding
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of advanced composites,
emphasizing the design
and manufacture of

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airframe structures. All aspects of composite design are 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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91394, USA, 1999.

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structures. Another goal of this course is to give composite engineers a practical design tool that contains broad data and information gained from past experience and lessons learned in the design and fabrication of composite components.

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too many details about

the composite structures

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aeronautical industries,
but it is a good reference
and also a guide and how
and when choose a
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structure instead of a
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one, and also it has a
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manufacturing process
being used nowadays and
also what is "coming
next" in this technology.

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Structures: Michael
Chun-Yung 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),

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and AIRFRAME

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ICCS 16 A. J. M. Ferreira

(Editor) FEUP, Porto,

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Kling * * DLR, Institute

of Composite Structures

and Adaptive Systems,

Lilienthalplatz 7, 38108

Braunschweig, Germany

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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

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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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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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