



Professor Nagendra Somanath

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Career:

Current: University of Hartford; Pratt and Whitney; United Technologies Corporation; Springer Science+Business Media

Previous: General Electric; GE Global Research; NASA Langley Research Center

Education:

1985-1992: Ph.D. Virginia Polytechnic Institute and State University (VPISU)

1980-1985: B.TECH, Aerospace Engineering, Indian Institute of Technology, Bombay

Selected Publications:

Nagendra, S., Haftka, R.T., Gurdal, Z., and Starnes, J.H., Jr., "Design of Stiffened Composite Panels with a Hole," Composite Structures, Vol. 18, 1991, pp. 195–219.

Nagendra, S., Haftka, R. T. and Gurdal, Z. "Stacking sequence optimisation of simple supported laminates with stability and strain constraints". AIAA Journal, Vol. 30, No. 8, pp. 2132-2137, 1992.

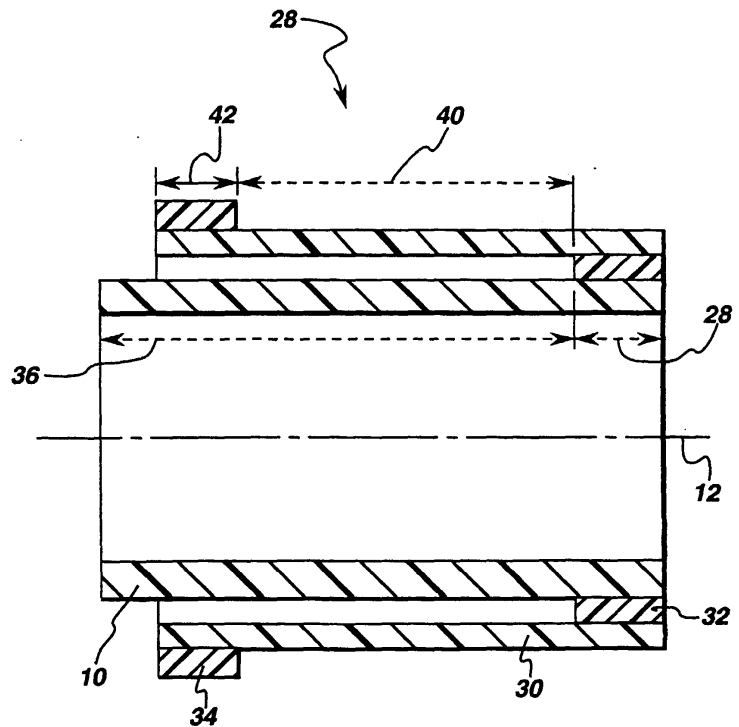


fig. 3

From: Designing an assembly of curved structures having composite laminate plies, Patent Number EP 1003113 A2; Inventors: Evangelos Trifon Laskaris and Somanath Nagendra, General Electric Company

Nagendra, S., Haftka, R.T., and Gürdal, Z., “Design of a Blade Stiffened Composite Panel by a Genetic Algorithm,” Proceedings of the 34th AIAA/ ASME/ ASCE/ AHS/ ASC Structures, Structural Dynamics and Materials Conference, La Jolla, California, April 19-22, 1993, pp. 2418-2436.

Nagendra, S., Haftka, R.T., and Gürdal, Z., “PASCO-GA: A Genetic Algorithm Based Design Procedure for Stiffened Composite Panels Under Stability and Strain Constraints,” Proceedings of the Tenth DOD/ NASA/ FAA Conference on Fibrous Composites in Structural Design, Hilton Head, South Carolina, Nov. 1993

Nagendra, S., Haftka, R. T., Gurdal, Z., and Starnes, J. H., Jr., “Buckling and Failure Characteristics of Compression-Loaded Stiffened Composite Panels with a hole,” Composite Structures, Vol. 28, 1994, pp. 1– 17.

Kogiso N, Watson LT, Gürdal Z, Haftka RT, Nagendra S (1994) Minimum thickness design of composite laminates subject to buckling and strength constraints by genetic algorithms. Proceedings of the AIAA/ASME/ASCE/AHS/ASC 35th Structures, Structural Dynamics and Materials Conference, Hilton Head, NC, 18–20 April, pp 2257–2275

S. Nagendra, S. Kodiyalam, J. E. Davis, and V. N. Parthasarathy. Optimization of tow fiber paths for composite design. In Proceedings of the AIAA/ASME/ASCE/AHS/ASC 36rd Structures, Structural Dynamics and Materials Conference, 1031–1041, New Orleans, LA, April 1995. AIAA 95-1275

S. Nagendra, R.T. Haftka, Z. Gurdal and L.T. Watson, “Derivative based approximation for predicting the effect of changes in laminate stacking sequence”, Structural Optimization, Vol. 11, No. 3, pp 235-243, June 1996

Nagendra, S., Jestin, D., Gürdal, Z., Haftka, R.T., and Watson, L.T., “Improved Genetic Algorithm for the Design of Stiffened Composite Panels,” Computers and Structures, Vol. 58, No. 3, 1996, pp. 543-555.

Oung Park, Raphael T. Haftka, Bhavani V. Sankar, James H. Starnes, Jr. and Somanath Nagendra, “Analytical-Experimental Correlation for a Stiffened Composite Panel Loaded in Axial Compression”, 39th AIAA Structures, Structural Dynamics and Materials Conference, AIAA-98-1993, April 1998