JOURNALS AND REFEREED CONFERENCE PROCEEDINGS

1. Adams, R.D. and Percival, A.L.
   "Measurement of the strain-dependent damping of metals in axial vibration"

2. Adams, R.D., Fox, M.A.O., Fox, R.J.L., Flood, R.J., Friend, R.J. and Hewitt, R.L.
   "The dynamic properties of unidirectional carbon and glass fibre reinforced plastics in torsion and flexure"

3. Adams, R.D.
   "The damping characteristics of certain steels, cast irons and other metals"

4. Adams, R.D. and Fox, M.A.O.
   "Measurement of the damping capacity and dynamic modulus of high-damping metals under direct cyclic stress"

5. Fox, M.A.O. and Adams, R.D.
   "Prediction of the damping capacity of cast iron from the variation of its dynamic modulus with strain amplitude"

6. Adams, R.D.
   "Damping of ferromagnetic materials at direct stress levels below the fatigue limit"

7. Adams, R.D. and Mead, D.J.
   "Selection of materials for vibrating structures"
   Machinery, 1972, April.

8. Adams, R.D. and Short, D.
   "The effect of fibre diameter on the dynamic properties of glass fibre reinforced polyester resin",

   "Rubber model for adhesive lap joints"
   J. Strain Analysis, 1973, 8, 52-57.

10. Adams, R.D. and Bacon, D.G.C.
    "Measurement of the flexural damping capacity and dynamic Young's modulus of metals and reinforced plastics"

11. Adams, R.D. and Fox, M.A.O.
    "Principal mechanisms of damping in cast irons"

12. Adams, R.D. and Fox, M.A.O.
    "Comparison of shear, compressive and tensile characteristics of cast iron"

    "The effect of adherend Poisson's ratio strains on the stresses of an idealized lap joint"
    J. Strain Analysis, 1973, 8, 134-139.

14. Fox, M.A.O. and Adams, R.D.
    "Correlation of the damping capacity of cast iron with its mechanical properties and microstructure"

15. Adams, R.D. and Bacon, D.G.C.
    "The dynamic properties of unidirectional fibre reinforced composites in flexure and torsion"

16. Adams, R.D. and Bacon, D.G.C.
    "Effect of fibre orientation and laminate geometry on the dynamic properties of carbon fibre reinforced plastics"
17. Adams, R.D., Flitcroft, J.E., Hancox, N.L. and Reynolds, W.N.  
"Effects of shear damage on the torsional behaviour of carbon fibre reinforced plastics"  

18. Adams, R.D., Walton, D., Flitcroft, J.E. and Short, D.  
"Vibration testing as a non-destructive test tool for composite materials"  
ASTM, STP 580, 1974, 149-175.

19. Adams, R.D. and Bacon, D.G.C.  
"The effect of fibre modulus and surface treatment on the modulus, damping and strength of carbon fibre reinforced plastics"  

20. Adams, R.D. and Peppiatt, N.A.  
"Stress analysis of adhesively bonded lap joints"  
J. Strain Analysis, 1974, 9, 185-196.

"Flexural stiffness of sandwich beams"  

22. Adams, R.D., Walton, D. and Short, D.  
"The accumulation of damage in the torsional fatigue of glass and carbon fibre reinforced material and its detection by a vibration method"  

23. Adams, R.D.  

24. Adams, R.D.  
"Longitudinal shear modulus and damping of carbon fibres"  

"Apparatus for measuring the torsional modulus and damping of single carbon fibres"  

"The application of acoustic emission to fibre reinforced composite materials"  

27. Adams, R.D. and Coppendale, J.  
"Measurement of the elastic moduli of structural adhesives by a resonant bar technique"  

28. Adams, R.D.  
"The effect of steam and hot air on the shear strength of glass and carbon fibre reinforced plastics"  

29. Adams, R.D. and Coppendale, J.  

30. Adams, R.D. and Peppiatt, N.A.  
"Stress analysis of adhesively-bonded tubular lap joints"  

31. Adams, R.D. and Flitcroft, J.E.  
"The detection of matrix cracks in fibre reinforced plastics and their effect on shear strength"  

32. Adams, R.D., Coppendale, J. and Peppiatt, N.A.  

33. Adams, R.D., Coppendale, J. and Peppiatt, N.A.  
"Stress analysis of axisymmetric butt joints loaded in torsion and tension"  
34. Adams, R.D., Cawley, P., Pye, C.J. and Stone, B.J.
"A vibration technique for nondestructively assessing the integrity of structures"

35. Cawley, P. and Adams, R.D.
"The predicted and experimental natural modes of free-free CFRP plates"
J. Compos. Matls., 1978, 12, 336-347.

36. Cawley, P. and Adams, R.D.
"The location of defects in structures from measurements of natural frequencies"
J. Strain Analysis, 1979, 14, 49-57.

37. Adams, R.D. and Coppendale, J.
"The stress-strain behaviour of axially-loaded butt joints"
J. Adhesion, 1979, 10, 49-62.

38. Cawley, P. and Adams, R.D.
"Improved frequency resolution from transient tests with short record lengths"
J. Sound & Vibration, 1979, 64, 123-132.

39. Cawley, P. and Adams, R.D.
"A vibration technique for nondestructive testing of fibre composite structures"
J. Compos. Matls., 1979, 13, 161-175.

40. Adams, R.D.

41. Brownjohn, J.M.W., Steele, G.H., Cawley, P. and Adams, R.D.
"Errors in mechanical impedance data obtained with impedance heads"

42. Cawley, P., Adams, R.D. and Plumbridge, W.J.
"Use of vibration measurements for the detection of diffuse creep damage"

43. Guild, F.J. and Adams, R.D.
"A new technique for the measurement of the specific damping capacity of beams in flexure"

44. Pye, C.J. and Adams, R.D.
"Heat emission from damaged composite materials and its use in nondestructive testing"

45. Crocombe, A.D. and Adams, R.D.
"Peel analysis using the finite element method"
J. Adhesion, 1981, 12, 127-139.

46. Pye, C.J. and Adams, R.D.
"Detection of damage in fibre reinforced plastics using thermal fields generated during resonant vibration"

47. Adams, R.D.
"Stress analysis: a finite element approach"

48. Guild, F.J. and Adams, R.D.
"The detection of cracks in damaged composite materials"

49. Crocombe, A.D. and Adams, R.D.
"Influence of the spew fillet and other parameters on the stress distribution in the single lap joint"

50. Adams, R.D. and Vaughan, N.D.
"Resonance testing of cast iron"
51. Crocombe, A.D. and Adams, R.D.

52. Vaughan, N.D. and Adams, R.D.
"The longitudinal vibration of cylindrical bars with an amplitude-dependent modulus"
J. Sound & Vibration, 1982, 80, 71-81.

53. Pye, C.J. and Adams, R.D.
"A vibration method for the determination of stress intensity factors"

54. Crocombe, A.D. and Adams, R.D.
"An elasto-plastic investigation of the peel test"

55. Flitcroft, J.E. and Adams, R.D.
"A study of shear crack propagation in glass and carbon fibre reinforced plastics using acoustic emission monitoring"

56. Al-Agha, H.R. and Adams, R.D.
"Determination of multiple damage sites by measurements of structural natural frequencies"
Proc. 10th World Conf. on Nondestructive Testing, Moscow, 1982, 5, 13-20.

"Location of defects within embedded model piles using a resonant vibration technique"
Proc. 10th World Conf. on Nondestructive Testing, Moscow, 1982, 4, 77-84.

58. Adams, R.D., Crocombe, A.D. and Harris, J.A.

59. Adams, R.D.
"Mechanisms of damping in composite materials"
J. de Physique, 44, C9-29 to C9-37, 1983.

60. Adams, R.D. and Coveney, V.A.
"Mechanical hysteresis in materials used in superconducting electrical machines"

61. Adams, R.D.
"Vibrational non-destructive test techniques"

62. Adams, R.D. and Harris, J.A.

63. Ni, R.G. and Adams, R.D.
"The impact strength of adhesive lap joints"

64. Ni, R.G. and Adams, R.D.
"A rational method for obtaining the dynamic mechanical properties of laminae for predicting the stiffness and damping of laminated plates and beams"
Composites, 1984, 15, 193-199.

65. Ni, R.G. and Adams, R.D.
"The damping and dynamic moduli of symmetric laminated composite beams - theoretical and experimental results"
J. Compos. Matls., 1984, 18, 104-211.

"Prediction and measurement of the vibrational damping parameters of carbon and glass fibre-reinforced plastics plate"
J. Compos. Matls., 1984, 18, 132-152.

"The dynamic properties of carbon-glass fibre sandwich laminated composites: theoretical, experimental and economic considerations"
Composites, 1984, 15, 297-304.
67. Harris, J.A. and Adams, R.D.  
"Strength prediction of bonded single lap joints by non-linear finite element methods"  

68. Adams, R.D.  
"Nondestructive testing of fibre reinforced plastics using resonant vibrothermography"  

69. Adams, R.D.  

70. Harris, J.A. and Adams, R.D.  
"An assessment of the impact performance of bonded joints for use in high energy absorbing structures"  

"Dynamic testing of thin specimens"  

72. Lin, D.X. and Adams, R.D.  
"Determination of the damping properties of structures by transient testing"  

73. Cawley, P., Woolfrey, A.M. and Adams, R.D.  
"Natural frequency measurements for production quality control of fibre composites"  
Composites, 1985, 16, 32-27.

74. Adams, R.D. and Harris, J.A.  
"Failure mode prediction of bonded CFRP-Steel joints"  

75. Adams, R.D., Allen, A.M. and Cawley, P.  
"A new method for nondestructively examining bonded structures"  

76. Adams, R.D., Allen, A.M. and Cawley, P.  
"Nondestructive testing of composite structures by low velocity impact"  

77. Adams, R.D. and Cawley, P.  
"Vibration techniques in nondestructive testing"  

78. Guyott, C.C.H., Cawley, P. and Adams, R.D.  
"Vibration characteristics of the Mk. II Fokker Bond Tester probe"  
Ultrasonics, 1986, 24, 318-324.

"Stress analysis and failure properties of carbon-fibre reinforced plastic/steel double-lap joints"  

80. Guyott, C.C.H., Cawley, P. and Adams, R.D.  
"Vibration techniques in non-destructive testing of adhesively bonded structures: A review"  

81. Adams, R.D.  
"Adhesives in Civil Engineering"  

82. Adams, R.D. and Lambert, R.F.  
"A design methodology for estimating the damping in laminated and fibre-reinforced plates"  

83. Adams, R.D.  
"Theoretical stress analysis of adhesively bonded joints"  
84. Adams, R.D.  
"Analysis of the damping properties of composites"  

85. Adams, R.D., Cawley, P. & Guyott, C.C.H.  
"Nondestructive inspection of adhesively-bonded joints"  

86. Adams, R.D. & Harris, J.A.  
"The influence of local geometry on the strength of adhesive joints"  

87. Cawley, P. & Adams, R.D.  
"The nondestructive testing of honeycomb structures by the coin-tap technique"  

88. Cawley, P. & Adams, R.D.  

89. Guyott, C.C.H., Cawley, P. and Adams, R.D.  
'Use of the Fokker bond tester on joints with varying adhesive thickness'  

90. Adams, R.D. and Harris, J.A.  

91. Cawley, P. & Adams, R.D.  
"The mechanics of the coin-tap method of nondestructive testing"  

92. Adams, R.D. & Cawley, P.  

93. Note: the whole of this issue was specially commissioned by and edited by R.D. Adams and P. Cawley. This article has been reprinted by request of journal in: Materials Science & Technology, 1989, 5, 413-425.

94. Adams, R.D.  
"Strength Predictions for Lap Joints", especially with composite adherends : a review.  

95. Adams, R.D.  

96. Cawley, P. and Adams, R.D.  
"Sensitivity of the Coin-Tap Method of Nondestructive Testing"  

97. Adams, R.D.  
"Non-destructive Testing of Adhesively-bonded Joints"  

98. Adams, R.D.  
"The nondestructive evaluation of bonded structures"  

99. Adams, R.D.  

100. Adams, R.D.  

101. Adams, R.D., Brownjohn, J.M.W. and Cawley, P.  
'The detection of defects in GRP lattice structures by vibration measurements', NDT & E International, 1991, 24, 123-134.
102. Adams, R.D. 'Strength predictions in bonded joints, current thoughts at the University of Bristol', J.Adhesion, 1992, 37, 47-50.


140. Maheri, M.R. and Adams, R.D.

141. Adams, R.D. and Maheri, M.R.


143. Giannis, S.P. and Adams, R.D.

144. Da Silva, L.F.M. and Adams, R.D.

145. Da Silva, L.F.M. and Adams, R.D.

146. Adams, R.D. and Singh, M.M.

147. Adams, R.D.


149. Kadioglu, F., Ozel, A., Sadeler, R. and Adams, R.D.

150. Da Silva, L.F.M., Adams, R.D. and Gibbs, M.

151. Kadioglu, F., and Adams, R.D.

152. Da Silva, L.F.M. and Adams, R.D.

153. Da Silva, L.F.M. and Adams, R.D.

154. Da Silva, Lucas F M & Adams, RD.

155. Da Silva, Lucas F M & Adams, RD.

156. Da Silva, L.F.M. and Adams, R.D.

157. Giannis, S., Adams, R.D., Clark, LJ, and Taylor, M.J.
158. Giannis, S, Adams, R.D., Clark, LJ, and Taylor, M.J.
'Investigation of the water and fuel exposure characteristics of aircraft fuel tank sealants and
the effect on their glass transition temperature' J. Appl. Polymer Science, 2008, 108, 3073-3091

159. Da Silva, L.F.M., and Adams, R.D.
'Effect of temperature on the mechanical and bonding properties of a carbon-reinforced


'The relative merits of the Boeing wedge test and the double cantilever beam test for assessing
the durability of adhesively bonded joints, with particular reference to the use of fracture

162. Da Silva, L.F.M., das Neves, P.J.C., Adams, R.D., and Spelt, J.K.
'Analytical models of adhesively bonded joints—Part I: Literature survey’, International Journal
of Adhesion and Adhesives, 2009, 29, 319-330

163. L. D. R. Grant; R. D. Adams; Lucas F. M. da Silva
'Experimental and Numerical Analysis of T-peel Joints for the Automotive Industry’, Journal of
Adhesion Science and Technology, 2009, 23, 317-338

'Analytical models of adhesively bonded joints—Part II: Comparative study’,
International Journal of Adhesion and Adhesives, 2009, 29, 331-341

165. Grant, L.D.R., Adams R.D., and Lucas da Silva, L.F.M.,
'Experimental and numerical analysis of single-lap joints for the automotive industry’
International Journal of Adhesion and Adhesives, 2009, 29, 405-413

166. Grant, L.D.R., Adams R.D., and Lucas da Silva, L.F.M.
'Effect of the temperature on the strength of adhesively bonded single lap and T joints for the

167. Das Neves, P.J.C., da Silva, L.F.M., and Adams, R.D.
'Analysis of Mixed Adhesive Bonded Joints Part I: Theoretical Formulation’ J Adhesion Sc and
Tech 2009, 23, 1-34

168. Das Neves, P.J.C., da Silva, L.F.M., and Adams, R.D.
'Analysis of Mixed Adhesive Bonded Joints Part II: Parametric Study’, J Adhesion Sc and Tech
2009, 23, 35-62

169. Giannis, S, Adams, R.D., Clark, LJ, and Taylor, M.J.
'Peel behaviour of aircraft fuel tank sealants; the effect of peel angle, sealant layer thickness,
and peel rate’ J Adhesion Sc and Tech 2009, 23, 1-34