Analyses of Laser Bonded Metal/Polymer Interfaces

By Nusrat Lubna

LAP Lambert Acad. Publ. Apr 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - For miniaturized biomedical devices, laser joining of dissimilar materials offer excellent potential to make precise joints. This book is focusing on the interface of metal/polymer. An important system for consideration is sputtered Ti coated glass joined with polymeric films(Polyimide and Teflon Fluorinated Ethylene-Propylene).Comparison of Sputtered method to that of CA-PVD are made and found that sputtered deposition technique provides better film quality and bond strength over CA- PVD.The role of both surface characteristics and chemical bonding are investigated for laser joints using advanced techniques such as Optical Microscopy, AFM, XPS,SEM, EDS, AES and PALS.For the case of Ti coated glass/Teflon®FEP,no detectable degradation of polymer is observed in terms of free volume of voids. 120 pp. Englisch.

Reviews

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