



IUTAM Symposium on Smart Structures and Structronic Systems

By Gabbert, Ulrich / Tzou, Horsten S.

Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the IUTAM Symposium held in Magdeburg, Germany, 26-29 September 2000 | Proceedings of the IUTAM Symposium on Smart Structures and Structronic Systems, held in Magdeburg, Germany, 26-29 September 2000 | Synergistic integration of smart materials, structures, sensors, actuators and control electronics has redefined the concept of "structures" from a conventional passive elastic system to an active controllable structronic (structure +electronic) system with inherent self-sensing, diagnosis, and control capabilities. Such structronic systems can be used as components of high performance systems or can be an integrated structure itself performing designated functions and tasks. Due to the multidisciplinary nature of structronic systems their development has attracted researchers and scientists from theoretical and applied mechanics and many other disciplines, such as structures, materials, control, electronics, computers, mathematics, manufacturing, electromechanics, etc. , see Figure I. This field was first introduced about mid-80 and it is quickly becoming a new emerging field recognized as one of the key technologies of the 21 century. This new field focuses on not only multi-field and multi-discipline integrations, but has also enormous practical applications impacting many industries and enriching human living qualities. Structures (Systemill, Monitoring...) (Non-homogeneous & Incompatible...



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