

IUTAM Symposium on Synthesis in Bio Solid Mechanics



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IUTAM SYMPOSIUM ON SYNTHESIS IN BIO SOLID MECHANICS



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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the IUTAM Symposium held in Copenhagen, Denmark, 24-27 May 1998 | Proceedings of the IUTAM Symposium held in Copenhagen, Denmark, 24-27 May 1998 | This book contains the edited version of invited lectures presented at the IUTAM-Symposium Synthesis in Bio Solid Mechanics, held at Hotel Frederiksdal, Virum (Copenhagen), Denmark, May 24 to May 27, 1998. The symposium was attended by 48 scientist from 14 countries. Biomechanics has been a very active research area in the last 25 years and covers a very broad class of problems. The present symposium concentrated on the solid mechanics - main of biomechanics, where important problems of synthesis presently are an active and challenging part. Characteristics of biomechanical materials are not only the inhomogeneity and anisotropy, but also the capability to change in relation to actual use. These living materials call for new methods of analysis and also new methods for synthesis. By the synthesis in this context is meant design of implants or artificial control of material growth. Bone mechanics is closely related to recent work on analysis and design of microstructural anisotropic materials. Also, recent work in shape design can to some extent be useful in the more complicated problems of biomechanics. Here interface problems play an essential role. The symposium brought together scientists from mechanics, mathematics and medicine. | Preface. Remodelling and Experiments: (Chairman: S.C. Cowin) Functional Adaptation in Bone; T.C. Lee, et al. Mechanical and Hormonal Mechanisms Influencing Skeletal Form; M.D. Roberts, R.T. Hart. Self-organization of Topological Structures by a Cellular Automaton; N. Inou, et al. Micromechanics of Bones: (Chairman: H. Rodrigues) Architectural 3-D Parameters and Anisotropic Elastic Properties of Cancellous Bone; A. Odgaard, et al. Lattice Continuum Model for Bone Remodeling Considering Microstructural Optimality of Trabecular Architecture; M. Tanaka, T....



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