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Nota di contenuto	Front matter -- I. Historical Background -- Julius Wolff and the Law of Bone Remodelling / Zippel, H. -- A Noteworthy Meeting of the Society for Nature Research in Zurich Two Important Precursors of Julius Wolff: Carl Culmann and Hermann von Meyer / Rüttimann, B. -- Julius Wolff and Friedrich Pauwels. Wolff's Concept of a Causal Therapy of Orthopaedic Diseases Using Biological Adaptation Phenomena and Its Realization by Friedrich Pauwels / Löer, F. / Weigmann, R. -- Wolff's Law / Maquet, Paul -- II. Theory of Biological Sciences -- Biological Explanation and Principle of Causality / Löther, R. -- Adaptation and Compensation as Biological Principles of Medical Thinking and Action / Hecht, A. -- Feedback Control Processes in Medicine and Technology - a Comparison / Thomas, F. -- III. Biomechanical Considerations -- Computer Aided Simulation of the Functional Bone Adaptation - a Method to Check a Theory / Kummer, B. -- The Bone as a Compression Member in a Cable Tensioning Device: The Example of the Hip / Moser., M. / Hein, W. -- Stress-Shape Relationship during Treatment of a Congenital Dislocation of the Hip / Maquet, P. -- Computer Simulation of Bone Remodelling in Dentistry and Orthopaedics / Tsutsumi, S. // Yamamuro, T. -- Computerized Reconstruction for the Study of the Three-dimensional Architecture of Trabecular Bone / Merolli, A. / Tranquilli Leali, P. / Gabbi, C. / -- IV. Electrophysiological

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