

1. Record Nr.	UNINA9910438055403321
Autore	Silber Gerhard
Titolo	Preventive biomechanics : optimizing support systems for the human body in the lying and sitting position / / Gerhard Silber, Christophe Then
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, 2012, c2013
ISBN	1-283-62701-9 9786613939463 3-642-29003-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (379 p.)
Altri autori (Persone)	ThenChristophe
Disciplina	620.820113
Soggetti	Biomedical engineering Biomechanics Impact - Physiological effect - Simulation methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction and Historical Background -- The New Approach: BOSS-Procedure -- Fundamentals -- Extracorporal Supports -- Human Body Models (BOSS-Models) -- Applications-Mechanical Interactions -- Optimization Potential of the Method (Relationship between Perception and Biomechanical Injuries, 'Neuro-Biomechanics').
Sommario/riassunto	How can we optimize a bedridden patient's mattress? How can we make a passenger seat on a long distance flight or ride more comfortable? What qualities should a runner's shoes have? To objectively address such questions using engineering and scientific methods, adequate virtual human body models for use in computer simulation of loading scenarios are required. The authors have developed a novel method incorporating subject studies, magnetic resonance imaging, 3D-CAD-reconstruction, continuum mechanics, material theory and the finite element method. The focus is laid upon the mechanical in vivo-characterization of human soft tissue, which is indispensable for simulating its mechanical interaction with, for example, medical bedding or automotive and airplane seating systems. Using the examples of arbitrary body support systems, the presented approach

provides visual insight into simulated internal mechanical body tissue stress and strain, with the goal of biomechanical optimization of body support systems. This book is intended for engineers, manufacturers and physicians and also provides students with guidance in solving problems related to support system optimization.

2. Record Nr.	UNINA9910168760403321
Titolo	JBRA assisted reproduction
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ISSN	1518-0557
Descrizione fisica	1 online resource
Disciplina	573.619
Soggetti	Infertility Reproductive Techniques, Assisted Reproductive Physiological Phenomena - genetics Periodical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Nota di contenuto	A challenge of improving visibility of the research on Assisted Reproduction in Latin America--Jose Goncalves Franco Junior--Original Articles--Changes of apoptosis regulation in the endometrium of infertile women with tubal factor and endometriosis undergoing in vitro fertilization treatment--Comparative analysis of two cryopreservation systems of ovarian tissues in female Wistar rats--Isabel C. L. O. Durli, Ana Helena R. Paz, Paula B. Terraciano, Eduardo P. Passos, Elizabeth O. Cirne-Lima--Ovarian tissue vitrification: the use of a novel metal closed system for clinical grade cryopreservation--Douglas Aquino, Lucas Danielli, Paula Rigon, Nivia Lothhammer, Nilo Frantz, Adriana Bos-Mikich--Review--Strategies to preserve the reproductive future of women after cancer--Bruno R. de Carvalho, Jhenifer K. Rodrigues, Jacira R. Campos, Adelino A. Silva, Ricardo M. Marinho, Ana Carolina J. S. Rosa e Silva--Case Report--A minimally invasive approach with fertility

preservation in a young woman with distinct bilateral ovarian masses: a case report and review of the literature--Opinion Article--Human Rights To In Vitro Fertilization--Fernando Zegers-Hochschild, Bernard M. Dickens, Sandra Dughman-Manzur--Letter--Is the psychological stress related to the impact of IVF/ICSI and the INVO intravaginal device significantly different?.
