

CHEMICAL AND BIOCHEMICAL MICROSENSORS IN SILICON FOR THE CLINICAL ON-LINE MONITORING	
A. Scheipers, H. Hinkers, O. Waßmus, C. Sundermeier, B. Roß .....	209
ELECTRO-MAGNETIC BASE TECHNOLOGY FOR EXTREMELY SENSITIVE IMMUNOSENSORS AND DNA-CHIPS	
A. Gorschlüter, L.H. Mak, C. Sundermeier, B. Roß, M. Knoll .....	213
<b>Modellierung und Simulation</b>	
COMPARISON OF MACROSCOPIC MODELS OF EXCITATION AND FORCE PROPAGATION IN THE HEART	
F.B. Sachse, L.G. Blümcke, M. Mohr, K. Glänzel, J. Häfner, C. Riedel, G. Seemann, O. Skipa, C.D. Werner, O. Dössel .....	217
EXCITATION PROPAGATION AND FORCE DEVELOPMENT IN THE LEFT VENTRICLE OF THE VISIBLE FEMALE DATA SET	
G. Seemann, F.B. Sachse, O. Dössel .....	221
VOLUMENBASIERTE MODELLIERUNG DER DEFORMATION IM MYOKARD AUSGEHEND VON MODELLEN DER KRAFTENTWICKLUNG	
M.B. Mohr, L.G. Blümcke, F.B. Sachse, G. Seemann, C.D. Werner, O. Dössel .....	225
SIMULATION DES KOPPLUNGSVERHALTENS VON HERZRYTHMEN ZUR UNTERSUCHUNG DER PHASENSYNCHRONISATION	
D. Geue, P. van Leeuwen, S. Lange, D. Grönemeyer .....	229
RELATIONSHIP BETWEEN BLOOD PRESSURE AND FINGER PHOTOPLETHYSMOGRAPHIC WAVEFORM DURING OXYGEN DESATURATION TEST: A MODEL FITTING APPROACH	
J. Weng, H. Matz, H. Gehring, E. Konecny .....	233
OBSERVER DESIGN FOR HAEMODYNAMICS IN PATIENTS UNDERGOING CARDIAC SURGERY	
E. Naujokat, J. Barro, G. Meyrowitz, C.F. Vahl, U. Kiencke .....	235
HÄMODYNAMISCHE MODELLIERUNG UND SIMULATION DES BLUTGEFÄSSSYSTEMS	
H.P. Boll, A. Wagner, N. Lutter, W. Stork, K.D. Müller-Glaser .....	239
ELASTOMECHANIK DER VENTRIKEL: ENTWICKLUNG EINES PHANTOMS UND SIMULATIONSERGEBNISSE	
W. Sediono, O. Dössel .....	243
COMPARISON OF REGULARIZATION TECHNIQUES FOR THE RECONSTRUCTION OF TRANSMEMBRANE POTENTIALS IN THE HEART	
O. Skipa, M. Nalbach, F.B. Sachse, O. Dössel .....	246
TRANSVERSAL VERSUS LONGITUDINAL CURRENT PROPAGATION ON A CARDIAC TISSUE AND ITS RELATION TO MCG	
R. Weber dos Santos, F. Dickstein, D. Marchesin .....	249
CALCULATION OF THE DIELECTRIC PROPERTIES OF BIOLOGICAL TISSUE USING SIMPLE MODELS OF CELL PATCHES	
M.-A. Golombeck, C.H. Riedel, O. Dössel .....	253
SIMULATION OF NON-CONTACT MEASUREMENT OF THE ELECTRICAL IMPEDANCE USING AN ANATOMICAL MODEL	
C.H. Riedel, M.-A. Golombeck, O. Dössel .....	257
NUMERISCHE MODELLIERUNG DER ULTRASCHALL-THERMOTHERAPIE	
S. Ginter, M. Liebler, T. Dreyer, R.E. Riedlinger .....	261
SYMMETRY CONSIDERATIONS FOR VOLUMETRIC IMPLANT-PLANNING	
O. Burgert, T. Salb, T. Gockel, R. Dillmann, S. Hassfeld, J. Mühling .....	265
ANALYSING THE VARIATIONS OF SHAPES BASED ON SURFACEMODELS	
S. Däuber, P. Heinze, C. Kübler, H. Wörn .....	267
BIOELECTRIC AND BIOMAGNETIC LOCALIZATION OF DEEP SOURCES IN THE BRAIN: A MODEL STUDY	
W. Haberkorn .....	270
NUMERICAL FIELD CALCULATION OF PATIENT RETURN ELECTRODES IN ELECTROSURGERY	
J. Raiser, M.-A. Golombeck, O. Dössel .....	274
THE USE OF HYBRID STEREOLITHOGRAPHIC MODELS FOR THE PLANNING OF COMPLEX CRANIOFACIAL PROCEDURES	
J. Hoffmann, E. Schwaderer, F. Dammann .....	278
SIMULATION OF ELECTROMAGNETIC FIELDS IN THE HUMAN BODY USING FINITE INTEGRATION TECHNIQUE (FIT)	
V.C. Motrescu, U. v. Rienen .....	282