

Data-Driven and Minimal-Type Compartmental Insulin-Glucose Models: Theory and Applications.	1
Georgios D. Mitsis and Vasilis Z. Marmarelis	
Ensemble Glucose Prediction in Insulin-Dependent Diabetes.	37
Fredrik Ståhl, Rolf Johansson and Eric Renard	
Hypoglycemia Prevention Using Low Glucose Suspend Systems	73
B. Wayne Bequette	
Adaptive Algorithms for Personalized Diabetes Treatment	91
Elena Daskalaki, Peter Diem and Stavroula Mougiakakou	
Pitfalls in Model Identification: Examples from Glucose-Insulin Modelling.	117
Simona Panunzi and Andrea DeGaetano	
Simulation Models for In-Silico Evaluation of Closed-Loop Insulin Delivery Systems in Type 1 Diabetes.	131
Malgorzata E. Wilinska and Roman Hovorka	
Simple Parameters Describing Gut Absorption and Lipid Dynamics in Relation to Glucose Metabolism During a Routine Oral Glucose Test	151
Andrea Tura and Giovanni Pacini	
Data-Driven Modeling of Diabetes Progression.	165
Andrea DeGaetano, Simona Panunzi, Pasquale Palumbo, Claudio Gaz and Thomas Hardy	

Linear Modeling and Prediction in Diabetes Physiology	187
Marzia Cescon and Rolf Johansson	
 Nonlinear Modeling of the Dynamic Effects of Free Fatty Acids on Insulin Sensitivity	 223
Vasilis Z. Marmarelis, Dae C. Shin and Georgios D. Mitsis	