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Lecture Notes on Mathematical Modelling in Applied Sciences

Kai Velten is a professor of mathematics at the University of Applied Sciences, Wiesbaden, Germany, and a modeling and simulation consultant. Having studied mathematics, physics and economics at the Universities of Gottingen and Bonn, he worked at Braunschweig Technical University (Institute of Geoecology, 1990-93) and at Erlangen University (Institute of Applied Mathematics, 1994-95).

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Mathematical and Computer Modelling

4 Lectures Notes on Mathematical Modelling in Applied Sciences Example 1.2.1 Linear Elastic Wire-Mass System Consider, with reference to Figure 1.2.1, a mechanical system consti-tuted by a mass m constrained to translate along an horizontal line, say the x -axis. The location of the mass is identified by the coordinate of its

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