

Contents

Foreword — V

Editorial — VII

Acknowledgment — XI

List of Contributing Authors — XV

S. Eichstädt and M. Gruber

Fundamentals of dynamic measurement analysis for LTI systems — 1

M. Gruber, S. Eichstädt, and C. Elster

Modeling dynamic measurements in metrology and propagation of uncertainties — 35

Th. Bruns, L. Klaus, and M. Kobusch

Traceable calibration for the dynamic measurement of mechanical quantities — 73

V. Wilkens and M. Weber

Traceable measurements with dynamically calibrated hydrophones — 99

S. Eichstädt

Dynamic measurement analysis and the internet of things — 117

Index — 127