

Preface

Excellent equipment is available for the measurement of stress strain curves of materials, enabling careful characterizations of elastomers, polymers, paper, metals and many other materials. But sometimes, you have the wish for a very simple accurate, easy to build, transportable and desktop size stress strain measurement system. Richard Moser shows in his best master thesis how to build such a device simply from kid's toys, together with a few common parts. He shows that the system allows for accurate measurements, comparable to that of standard laboratory equipment. Being surprisingly simple in design, it is easy to rebuild the system. Applications of the device are manifold, from research in stretchable electronics, to education and exhibitions, to attract the interest of students and visitors.

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Plastic Tests Plastics

A Toy Brick Tensometer for Electromechanical
Characterization of Elastomers

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