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Kinetics and thermodynamics of thermally reversible polymers

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Kinetics and thermodynamics of thermally reversible polymers

Based on the furan-maleimide DA reaction

Jing Li

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and engineering

The research described in this thesis was performed in the Advanced Production Engineering (APE) group until May 2018, the Computational Mechanical and Materials Engineering (CMME) group as of June 2018, and the Product Technology group of the Engineering and Technology Institute Groningen (ENTEg) at the University of Groningen, the Netherlands.

Book cover: Background is the polymer chains we used in this thesis; (Front) green elements represent the inspiration for this research into thermally reversible polymers: a more environmentally-friendly use of polymer plastics; (Back) three figures show the basic topics in this thesis, "reaction heat flow", "reaction path", and "phase diagram", and the text is the abstract of this thesis.

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Based on the furan-maleimide DA reaction

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and in accordance with
the decision by the College of Deans.

This thesis will be defended in public on

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To
my beloved
family

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