

Preface

This volume is a record of the material of the following two lecture notes:

Nam Q. Le: The Second Boundary Value Problem of the Prescribed Affine Mean Curvature Equation and Related Linearized Monge-Ampère Equation.

Hiroyoshi Mitake and Hung V. Tran: Dynamical Properties of Hamilton–Jacobi Equations via the Nonlinear Adjoint Method: Large Time Behavior and Discounted Approximation.

The notes of Le are based on various mini courses and lecture series given at Rutgers University in 2013, Vietnam Institute for Advanced Study in Mathematics (VIASM) in 2013, Institute of Mathematics, Vietnam Academy of Science and Technology, in 2013, and Indiana University in 2016. The notes of Mitake and Tran are based on the two courses given by the authors at VIASM in 2014. It is our belief that this volume will serve as a useful reference for researchers in the fields of fully nonlinear partial differential equations with focus on dynamical and geometric aspects.

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Dynamical and Geometric Aspects of Hamilton-Jacobi
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