## Contents

Preface
**Gestur Ólafsson and Eric Todd Quinto** vii

An Introduction to X-ray Tomography and Radon Transforms
**Eric Todd Quinto** 1

Development of Algorithms in Computerized Tomography
**Alfred K. Louis** 25

Fan-Beam Tomography and Sampling Theory
**Adel Faridani** 43

Generalized Transforms of Radon Type and Their Applications
**Peter Kuchment** 67

Inverse Problems in Pipeline Inspection
**Peter Massopust** 93

Robust Interferometric Imaging in Random Media
**Liliana Borcea** 129

Index 157