

## Table of Contents

### Preface

#### What Materials to Use in Hydride Chemical Heat Pumps?

P. Dantzer and F. Meunier 1

#### Separation of Hydrogen Isotopes

W.M. Rutherford 19

#### Some Aspects of Tritium Storage in Hydrogen Storage Materials

R. Lässer and T. Schober 39

#### Electronic Structure of Intermetallic Hydrides for Hydrogen Storage

M. Gupta 77

#### Bandstructure of Intermetallic Hydrides Determined with Photoelectron Spectroscopy

T. Riesterer 111

#### Hydrogen Locations in LaNi<sub>5</sub> and Related Hydrides

A. Percheron-Guegan and C. Lartigue 125

#### The Zr<sub>1-x</sub>Hf<sub>x</sub>V<sub>2</sub>-H System

143

#### Hydride Formation by B.C.C. Solid Solution Alloys

G.G. Libowitz and A.J. Maeland 177

#### Preparation and Properties of Amorphous Hydrides

R.C. Bowman, Jr. 197

#### Hydrogen Site Identity and Statistical Modelling in Amorphous Transition Metal Alloys

J.H. Harris and W.A. Curtin 229

#### Mechanisms for Activation of Intermetallic Hydrogen Absorbers

F.D. Manchester and D. Khatamian 261

#### Hysteresis in Metal Hydrides

T.B. Flanagan and C. Park 297