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Laser-Solid Interactions for Materials Processing

Editors: D. Kumar, David P. Norton, Clinton B. Lee, Kenji Ebihara and X. X. Xi

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Laser-Solid Interactions for Materials Processing

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PREFACE

This volume is the proceedings of the symposium "Laser-Solid Interactions for Materials Processing," held April 25-27 at the 2000 MRS Spring Meeting in San Francisco, California. The intent of the symposium was to bring together the materials science and technology communities to discuss recent progress on various aspects of laser ablation, which included both the fundamentals of pulsed laser deposition and its potential application in thin film formation and materials processing.

We would like to thank all of the participants and contributors from academia, national institutions and industrial organizations who made this symposium so successful. There were more than 75 papers presented in seven sessions focusing on (i) fundamentals of laser desorption and ablation, (ii) laser-driven nanoparticle formation, (iii) laser-solid interactions for materials processing, (iv) laser direct writing, (v) lasers in micromachining and surface modification, (vi) laser-based deposition of oxides, and (vii) pulsed-laser deposition. We would also like to acknowledge the financial contributions of Epion Corporation, Lambda Physik, and Neocera, Inc.

D. Kumar
David P. Norton
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