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Editors: W. Brenig, D. Menzel

Desorption Induced by Electronic Transitions DIET II

Proceedings of the Second International Workshop,
Schloß Elmau, Bavaria, October 15–17, 1984

Editors: W. Brenig and D. Menzel

With 164 Figures



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Preface

The second workshop on Desorption Induced by Electronic Transitions (DIET II) took place October 15-17, 1984, in Schloß Elmau, Bavaria. DIET II, following the great success of DIET I (edited by N.H. Tolk, M.M. Traum, J.C. Tully, T.E. Madey and published in Springer Ser. Chem. Phys., Vol. 24), again brought together over 60 workers in this exciting field. The "hard core of experts" was essentially the same as in DIET I but the general overlap of participants between the two meetings was small. While DIET I had the function of an exposition of the status of the field DIET II focussed more on new developments. The main emphasis was again on the microscopic understanding of DIET but a number of side aspects and the application of DIET ideas to other fields such as sputtering, laser-induced desorption, fracture, erosion, etc. were considered, too. New mechanisms and new refined experimental techniques were proposed and discussed at the meeting critically but with great enthusiasm.

In addition to the talks, there was a continuous poster exhibition which also stimulated extended and excited discussions. This book is a collection of papers summarizing the talks and posters presented at the meeting. Although in its condensed form it can not give full account of the lively atmosphere of the discussions which took more than half of the time of the meeting we hope it will at least reflect some of the excitement of the field of DIET and stimulate further work in the future.

We acknowledge the assistance given by the other members of the organizing committee, A.E. de Vries, E. Bauer, R. Gomer, M.L. Knotek, T.E. Madey, N.H. Tolk, J.C. Tully, and D.P. Woodruff in developing the workshop program, and the generous support provided by the Stiftung Volkswagenwerk, the U.S. Office of Naval Research, the Technische Universität München and the National Bureau of Standards.

München, February 1985

W. Brenig · D. Menzel

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