

# **Kinetic and Nonlinear Effects Associated with the Catalytic CO Oxidation on Pt Surfaces**



Ph.D. Dissertation  
FB Biologie, Chemie, Pharmazie  
Freie Universität Berlin

**Stefano Cerasari**

April 2000

# **Kinetic and Nonlinear Effects Associated with the Catalytic CO Oxidation on Pt Surfaces**

Ph.D. Dissertation  
FB Biologie, Chemie, Pharmazie  
Freie Universität Berlin

**Stefano Cerasari**  
born in Trieste, Italy

April 2000

The present work has been conducted between April 1997 and March 2000 at the Fritz-Haber-Institute of the Max-Planck-Society in Berlin, under the supervision of Priv.-Doz. Dr. H.H. Rotermund and Prof. Dr. G. Ertl.

1<sup>st</sup> referee: Prof. Dr. G. Ertl

2<sup>nd</sup> referee: Prof. Dr. K. Christmann

Oral examination: June 8, 2000

*“Let us confine our attention mainly to reactions on plane surfaces. If the principles in this case are well understood, it should then be possible to extend the theory to the case of porous bodies”.*

I. Langmuir, Trans. Faraday Soc. **17** (1922), 615.