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Surface Engineering 2001—Fundamentals and Applications

Editors: Wen Jin Meng, Ashok Kumar, Gary L. Doll, Yang-Tse Cheng, Stan Veprek
and Yip-Wah Chung

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MATERIALS RESEARCH SOCIETY

SYMPOSIUM PROCEEDINGS VOLUME 697

Surface Engineering 2001— Fundamentals and Applications

Symposium held November 26–29, 2001, Boston, Massachusetts, U.S.A.

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PREFACE

This proceedings from Symposium P, "Advances in Surface Engineering—Fundamentals and Applications," held November 26–29 at the 2001 MRS Fall Meeting in Boston, Massachusetts, documents a fraction of the invited, contributed, and poster presentations at the first Materials Research Society symposium dedicated expressly to the topic of Surface Engineering. Representing a relatively new and interdisciplinary field, surface engineering draws contributions across science and engineering disciplines, including physics, chemistry, mechanics, tribology, and materials research, and encompasses experimental as well as computational work. The diversity of the field is reflected in this proceedings, containing papers dealing with wide ranging topics, including nanostructured ceramic thin films, fundamental and applied tribology, surface modification of microscale structures and devices, chemical/mechanical polishing, and many others. The significant level of symposium participation, despite the September 11th tragedy, reflects the level of interest for surface engineering in the materials research community. It is our sincere hope that, through focused symposia like this, the materials research community will continue to help define, clarify, understand, and solve the major issues pertaining to surface engineering.

Wen Jin Meng
Ashok Kumar
Gary L. Doll
Yang-Tse Cheng
Stan Veprék
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