

Table of Contents

Preface

Cutting Tools of Superhard Materials

S.A. Klimenko, Y.A. Mukovoz and L.G. Polonsky 1

Deposition Methods, Properties and Metal Cutting Applications of Ceramic Films

S. Chatterjee and S. Chandrashekhar 67

Machining of Steel with Advanced Ceramic Cutting-Tools

S. Lo Casto, E. Lo Valvo, E. Lucchini, S. Maschio, M. Piacentini and V.F. Ruisi 105

Silicon Nitride Ceramic Cutting-Tools and Their Applications

H.Z. Miao, L.H. Qi and G. Cui 135

Advanced Ceramic-Ceramic Composite Tool Materials for Metal Cutting Applications

T. Sornakumar 173

Sintering Properties and Cutting-Tool Performance of Ti(C,N)-Based Ceramics

T. Watanabe, T. Doutsu and T. Nakanishi 189