

## CONTENTS

Preparation and characterization of C-Be and C-W samples for mixed plasma-facing materials research at INEEL.....	1
<i>R.A. Anderl, G.R. Longhurst, R.J. Pawelko</i>	
Mixed-materials development and characterization in PISCES .....	7
<i>R.P. Doerner and the PISCES Team</i>	
Formation and characterization of CKC doped graphites.....	15
<i>A.A. Haasz, J.W. Davis</i>	
Reactions between hydrogen-containing carbon films and substrate metals at elevated temperatures.....	19
<i>K. Ashida, K. Watanabe</i>	
Investigation of plasma interaction with carbon based and mixed materials related to next-generation fusion devices.....	31
<i>M.I. Guseva, Yu.V. Martynenko, S.N. Korshunov</i>	
Plasma-material interaction for mixed plasma-facing materials in fusion reactors studied in TEXTOR-94 .....	67
<i>E. Vietzke, W. Biel, H.G. Esser, T. Hirai, A. Huber, A. Kirschner, M. Lehnen, T. Ohgo, K. Ohya, V. Philipps, A. Pospieszczyk, J. Rapp, M. Rubel, U. Samm, B. Schweer, J. von Seggern, G. Sergienko, T. Tanabe, M. Wada, P. Wienhold</i>	
Formation and erosion of mixed materials.....	79
<i>Ch. Linsmeier, J. Roth, K. Schmid</i>	
Erosion of doped graphites and DIII-D tokamak tiles.....	97
<i>A.A. Haasz, J.W. Davies, A.Y.K. Chen, P.B. Wright, R.G. Macaulay-Newcombe</i>	
Mixed-material erosion processes in PISCES.....	111
<i>R.P. Doerner and the PISCES Team</i>	
H-retention in doped graphites and C <sup>+</sup> -implanted W, and thermo-oxidative removal of tokamak codeposits.....	119
<i>A.A. Haasz, J.W. Davies, M. Poon, R.G. Macaulay-Newcombe, C.G. Hamilton</i>	
Hydrogen retention in beryllium oxide .....	129
<i>V.Kh. Alimov</i>	
Deuterium retention in graphite, tungsten and tungsten-carbon mixed materials.....	139
<i>V.Kh. Alimov, D.A. Komarov, R.Kh. Zalavutdinov</i>	
Deuterium retention studies at the INEEL for C-Be and C-W mixed plasma-facing materials .....	159
<i>R.A. Anderl, G.R. Longhurst, R.J. Pawelko</i>	
Mixed-material hydrogen inventory and removal techniques in PISCES .....	165
<i>R.P. Doerner and the PISCES Team</i>	
The method of H-isotopes and boron depth profiling using neutron flux as a tool for plasma-facing components investigation .....	171
<i>S.V. Artemov, E.V. Zhukovskaya, G.A. Radyuk, V.G. Ulanov, V.P. Jakushev</i>	