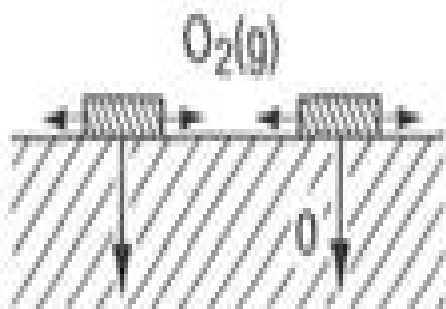


Adsorption

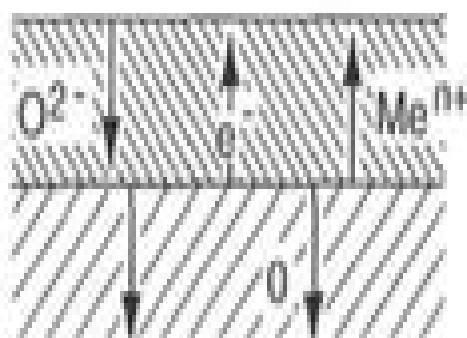
(a)



Oxide nucleation + growth

Oxygen dissolution

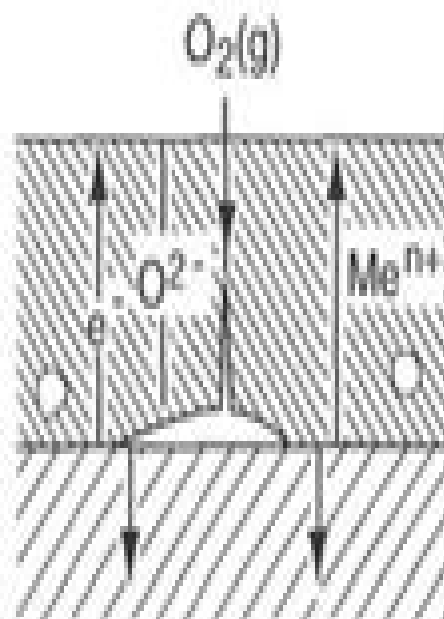
(b)



Film/scale growth

Internal oxidation

(c)

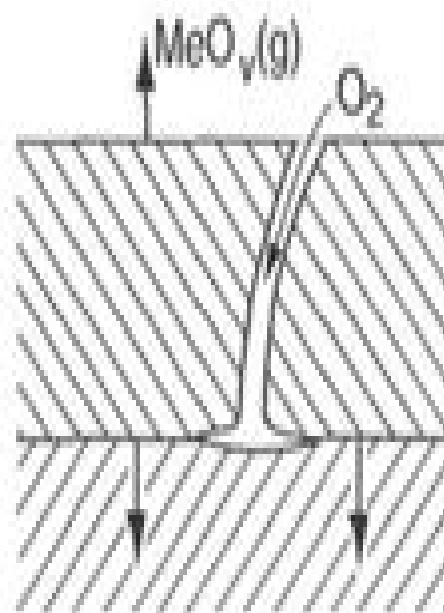


Cavities

Porosity

Microcracks

(d)



Macrocracks

Possible molten oxide
phases, oxide evaporation

(e)

Oxide Scale Behaviour In High Temperature Metal Processing

Xianglong Yu



Oxide Scale Behaviour In High Temperature Metal Processing:

Oxide Scale Behavior in High Temperature Metal Processing Michal Krzyzanowski, John H. Beynon, Didier C. J. Farrugia, 2010-03-30 The result of a fruitful on going collaboration between academia and industry this book reviews recent advances in research on oxide scale behavior in high temperature forming processes Presenting novel previously neglected approaches the authors emphasize the pivotal role of reproducible experiments to elucidate the oxide scale properties and develop quantitative models with predictive accuracy Each chapter consists of a detailed systematic examination of different aspects of oxide scale formation with immediate impact for researchers and developers in industry The clear and stringent style of presentation makes this monograph both coherent and easily readable

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