



Contents Volume 53

Leaching models for multiple immersed materials and for granular materials flushed in a column H.J.H. Brouwers (Enschede, Netherlands)	1
Performance of peat biofilter: impact of the empty bed residence time, temperature and toluene loading G.A. Sorial, F.L. Smith, M.T. Suidan, P. Biswas and R.C. Brenner (Cincinnati, OH, USA)	19
Development of a model to predict the effects of explosions in compact congested regions R.P. Cleaver, C.E. Humphreys, J.D. Morgan and C.G. Robinson (Loughborough, UK)	35
Surface chemical interaction of fibrous asbestos with biocells: An ESCA study S. Seal, S. Krezowski, T.L. Barr, D.H. Petering (Milwaukee, WI, USA), P.H. Evans and J. Klinowski (Cambridge, UK)	57
Analysis of vapor phase adsorption equilibrium of 1,1,1-trichloroethane on dry soils N.H. Dural (Cleveland, OH, USA) and C.-H. Chen (Columbia, MS, USA)	75
Gas build-up within a single building volume — comparison of measurements with both CFD and simple zone modelling S. Gilham, D.M. Deaves (Epsom, UK), R.P. Hoxey, C.R. Boon (Silsoe, UK) and A. Mercer (Sheffield, UK)	93
Modelling the role of surfactant and biodegradation in the remediation of aquifers with non-aqueous phase contaminants S.K. Santharam, L.E. Erickson and L.T. Fan (Manhattan, KS, USA)	115
Reclamation of solid waste landfills by capping with dredged material R.K. Mohan (Baltimore, MD, USA), J.B. Heribich, L.R. Hossner (College Station, TX, USA) and F.S. Williams (Point Comfort, TX, USA)	141
Sonochemical extraction and biological treatment of pentachlorophenol contaminated wood N. Pal, G.P. Korfiatis and V. Patel (Hoboken, NJ, USA)	165
Chemical incompatibility of nitrocompounds Y.-S. Duh, C. Lee, C.-C. Hsu (Hsinchu, Taiwan), D.-R. Hwang (Taipei, Taiwan, Republic of China) and C.-S. Kao (Hsinchu, Taiwan)	183
Theoretical and experimental investigation of combustion to detonation transition in chemically active gas mixtures in closed vessels N.N. Smirnov, I.I. Panfilov, M.V. Tyurnikov, A.G. Berdyugin, V.R. Dushin and Yu.P. Presnyakov (Moscow, Russian Federation)	195
Leaching behaviors of Ni and V from spent catalyst Y.D. Lai and J.C. Liu (Taipei, Taiwan)	213
<i>Book reviews</i>	225
<i>Author Index Volume 53</i>	241
<i>Subject Index Volume 53</i>	243
<i>Contents Volume 53</i>	245