

CONTENTS

Abstract/Indexed in: Current Contents, ISI SciSearch, Engineered Materials Abstracts, Ei Compendex, Ei Engineering, Applied Mechanics Reviews, Chemical Abstract Services, INSPEC, Energy Science and Technology, Fuel and Energy Abstracts, Health and Safety Science Abstracts, METADEX, PASCAL, UnCover.

ARIES-AT Special Issue

Preface, <i>A. René Raffray</i>	1
The ARIES-AT advanced tokamak, Advanced technology fusion power plant, <i>F. Najmabadi, The ARIES Team: A. Abdou, L. Bromberg, T. Brown, V.C. Chan, M.C. Chu, F. Dahlgren, L. El-Guebaly, P. Heitzenroeder, D. Henderson, H.E. St. John, C.E. Kessel, L.L. Lao, G.R. Longhurst, S. Malang, T.K. Mau, B.J. Merrill, R.L. Miller, E. Mogahed, R.L. Moore, T. Petrie, D.A. Petti, P. Politzer, A.R. Raffray, D. Steiner, I. Sviatoslavsky, P. Synder, G.M. Syaebler, A.D. Turnbull, M.S. Tillack, L.M. Waganer, X. Wang, P. West and P. Wilson</i>	3
Physics basis for the advanced tokamak fusion power plant, ARIES-AT, <i>S.C. Jardin, C.E. Kessel, T.K. Mau, R.L. Miller, F. Najmabadi, V.S. Chan, M.S. Chu, R. LaHaye, L.L. Lao, T.W. Petrie, P. Politzer, H.E. St. John, P. Snyder, G.M. Staebler, A.D. Turnbull and W.P. West</i>	25
Plasma profile and shape optimization for the advanced tokamak power plant, ARIES-AT, <i>C.E. Kessel, T.K. Mau, S.C. Jardin and F. Najmabadi</i>	63
Advanced power core system for the ARIES-AT power plant, <i>A.R. Raffray, L. El-Guebaly, S. Malang, I. Sviatoslavsky, M.S. Tillack, X. Wang and The ARIES Team</i>	79
Nuclear performance assessment of ARIES-AT, <i>L.A. El-Guebaly and The ARIES Team</i>	99
ARIES-AT safety design and analysis, <i>D.A. Petti, B.J. Merrill, R.L. Moore, G.R. Longhurst, L. El-Guebaly, E. Mogahed, D. Henderson, P. Wilson and A. Abdou</i>	111
ARIES-AT magnet systems, <i>F. Dahlgren, T. Brown, P. Heitzenroeder, L. Bromberg and The ARIES Team</i>	139
ARIES-AT maintenance system definition and analysis, <i>L.M. Waganer and The ARIES Team</i>	161
Design approach of the ARIES-AT power core and vacuum vessel cost assessment, <i>L.M. Waganer, F. Najmabadi, M. Tillack, X. Wang, L. El-Guebaly and The ARIES Team</i>	181