

Author Index

A

Abe, Y., 288-337
Aktaa, J., 123-142
Altstadt, E., 3-19, 69-84
Aoyagi, Y., 269-287

B

Ballesteros, A., 85-108
Barbu, A., 111-122, 143-157
Baskes, M., 231-247
Beck, L., 111-122, 143-157
Beeler, B., 231-247
Bergner, F., 3-19
Bickel, G. A., 161-175
Böhning, M., 211-227
Bordas, E., 111-122, 143-157
Brimbal, D., 111-122, 143-157

C

Chaâbane, N., 111-122, 143-157
Chernobaeva, A., 85-108

D

Debarberis, L., 85-108
Décamps, B., 111-122, 143-157
Deo, C., 231-247
Dethloff, C., 123-142
Douglas, S. R., 161-175

E

Efsing, P., 52-68
Erak, D., 85-108

F

Fluss, M., 111-122, 143-157

G

Gaganidze, E., 123-142
Garner, F. A., 161-175
Ghoniem, N. M., 338-349
Goering, H., 211-227
Golubov, S. I., 248-268
Grafutin, V., 85-108
Griffiths, M., 161-175

H

Hein, H., 3-19, 192-210
Henry, J., 111-122, 143-157
Houska, M., 69-84
Hsiung, L., 111-122, 143-157

J

Jaunich, M., 211-227
Jayakumar, T., 176-191
Jitsukawa, S., 288-337
Joseph, J., 176-191
Judge, C. D., 161-175

K

Kaji, Y., 269-287
Kirk, M., 20-51
Kuechler, R., 69-84
Kumar, P. V., 176-191

L

Lundgren, M., 52-68

M

Martin, H., 111-122, 143-157, 313-337
Meslin, E., 111-122, 143-157

Miro, S., 111-122, 143-157

Murugan, S., 176-191

N

Nikitin, A., 85-108

O

Okubo, N., 288-337

Okuniewski, M., 231-247

Osetsky, Y. N., 248-268

P

Panigrahi, B. K., 111-122

Pellegrino, S., 111-122, 143-157

R

Raj, B., 176-191

Robertson, C., 111-122

Rogozhkin, S., 85-108

Rouden, J., 52-68

S

Samolyuk, G. D., 248-268

Schaüblin, R., 111-122

Schnabel, H., 192-210

Seif, D., 338-349

Serruys, Y., 111-122, 143-157

Stewart, M., 161-175

Stoller, R. E., 248-268

Suzuki, K., 288-312

Svetukhin, V., 123-142

T

Tikhonchev, M., 123-142

Trocellier, P., 111-122, 143-157

Tsukada, T., 313-337

Tsuru, T., 269-287

Tumey, S., 111-122, 143-157

V

Vaubailon, S., 111-122, 143-157

Venugopal, S., 176-191

Viehrig, H.-W., 69-84

von der Ehe, K., 211-227

W

Walters, L., 161-175

Weiß, O. J., 123-142

Welzel, S., 192-210

Wolff, D., 211-227

Woo, O. T., 161-175

Wright, M., 161-175

Z

Zeman, A., 85-108

Subject Index

A

accelerated irradiation test,
176-191
accelerator, 143-157
alpha-iron, 313-337
aluminum magnesium alloys,
192-210
anisotropic diffusion, 338-349
annealing, 85-108
atom probe tomography, 85-108
austenitic stainless steel,
288-337

C

capture efficiency, 338-349
cascade, 313-337
cascade damage, 288-312
cluster, 288-312
cluster dynamics, 313-337
co-irradiation, 143-157
cold working, 288-312
constitutive equation, 288-312
crystal plasticity, 269-287

D

damage, 111-122, 143-157
dislocation, 269-287
dislocation bias, 338-349
ductile-to-brittle transition
temperature, 85-108

E

electron microscope, 288-312
embrittlement, 85-108, 161-175
embrittlement trend curve, 20-51

F

Fe-Cr alloy, 111-122
fission gas, 231-247
formation energies, 231-247
fracture toughness, 69-84

G

gamma irradiation, 211-227
Green-Kubo method, 248-268

H

helium, 111-122, 143-157
helium bubbles, 123-142
HMW-PE, 211-227

I

Inconel X-750, 161-175
ion, 111-122, 143-157
irradiated material, 269-287
irradiation, 111-122, 161-175, 288-312
irradiation creep, 176-191
irradiation effects, 20-51
irradiation embrittlement, 3-19,
192-210

L

long term operation, 3-19

M

master curve approach, 69-84
mechanical property, 288-312
microstructure, 111-122, 143-157,
288-337
modeling, 288-312

molecular dynamics, 248-287
multimodal approach, 69-84

N

neutron irradiation, 69-84,
192-210
neutron radiation shielding material,
211-227
non-homogeneous steel, 69-84

O

ODS steel, 111-122

P

positron annihilation, 85-108
pressurized capsule, 176-191
production bias model, 313-337

R

radiation damage, 123-142
radiation defect, 269-287
rate equation, 288-312
rate-theory, 338-349
reactor pressure vessel steel, 3-51,
69-108
research reactor, 192-210

S

silicon carbide, 248-268
SINTAP, 69-84
sodium, 176-191
stainless steel, 176-191
synergy, 111-122

T

tensile test, 288-312
thermal conductivity, 248-268
transmission electron microscopy,
123-142
two-parameter method, 288-312

U

UHMW-PE, 211-227
uranium, 231-247

V

vacancy, 231-247

Z

zirconium alloys, 176-191