Author Index

A

Alexander, D., 84-101
Andersson, J.-E., 291-302
Aoyama, Y., 257-267

B

Bathias, C., 181-202
Baudry, G., 408-421
Beer, O., 23-35
Blachère, S., 382-407
Bomas, H., 218-236
Brock, J., 23-35, 36-49
Burkart, K., 218-236

C

Carey, S., 268-288

D

Dierickx, P., 117-161
Dudragne, G., 117-161

F

Fazekas, A., 408-421
Fuller, A. J., 67-83, 84-101

G

Gabelli, A., 382-407
Gegner, J., 303-328, 329-340
Girodin, D., 117-161

H

Han, B., 162-178

I

Ishii, H., 237-254

K

Kahlman, L., 162-178
Koester, L. W., 67-83, 84-101

L

Lund, T. B., 3-22, 203-217

M

Matsubara, Y., 237-254
Meheux, M., 408-421
Mirring, P., 23-35, 36-49
Morris, P. F., 268-288

N

Nierlich, W., 303-328, 329-340

O

Olund, P. L. J., 291-302

R

Ragen, M. A., 50-66
Rivera-Díaz-del-Castillo, P. E. J., 355-381
Rösch, S., 102-113
Ryden, K., 203-217

S

Sakanaka, N., 237-254
Schroeder, R., 218-236
Sherif, M. Y., 162-178

Shimamura, Y., 237-254
Sidoroff, C., 117-161
Slycke, J. T., 341-352
Stienon, A., 408-421
Streit, E., 23-35, 36-49

T

Takasu, I., 257-267
Tarawneh, C., 67-83
Trojahn, W., 102-113
Turner, J. A., 67-83, 84-101

U

Unigame, Y., 257-267

V

Vegter, R. H., 341-352
Vincent, A., 408-421

W

Wicks, G., 291-302
Wilson, B. M., 67-83, 84-101

Z

Zimmerman, G. A., 50-66
Zoch, H.-W., 218-236
Zuhlke, C., 84-101

Subject Index

1

100Cr6, 117-161, 408-421

A

aerospace, 50-66
aerospace bearing materials, 36-49
AISI 440C, 162-178
AISI 52 100, 408-421

B

bearing endurance test evaluation, 303-328
bearing repair, 23-35
bearing steel, 102-113, 117-161, 181-202, 203-217, 218-236, 257-267, 268-288, 291-302, 408-421
bearing steel ASTM 52100, 341-352
bearing steel cleanliness, 67-83, 84-101
bearing vibration test rig, 329-340

C

carbide bands, 218-236
carbonitrided bearing steel, 303-328
cleanliness, 102-113, 117-161
cleanness assessment, 268-288
cobalt, 162-178
cold working, 303-328
contamination, 36-49
cyclic potentiodynamic polarisation, 162-178

D

damage evolution, 355-381
dislocation theory, 355-381
duplex hardening, 36-49

E

elemental, 50-66
endurance tests, 382-407

F

fatigue, 203-217
fatigue life testing, 23-35, 36-49
FB2 test, 117-161
femtosecond laser, 84-101
friction coefficient, 329-340
full scale, 50-66

G

gigacycle fatigue, 181-202
groove development shakedown, 341-352

H

hard water, 162-178
hot forming reduction, 203-217
hybrid bearing, 162-178
hydrogen accelerated fatigue, 303-328

I

inclusion, 102-113, 268-288, 408-421
inclusion stringers, 408-421
infinite fatigue theory, 23-35
irreversible thermodynamics, 355-381

L

laser machining, 84-101
LIBS, 268-288

M

machine vibrations, 329-340
macroscopic inclusion, 257-267
material decay, 291-302

maximum inclusion size value, 102-113
metal physics rolling contact fatigue modeling, 303-328
microstructural changes, 303-328
mixed friction, 329-340
modelling, 355-381
Monte Carlo simulations, 382-407
multi-axial fatigue life, 218-236

N

near-surface inclusions, 67-83, 84-101
nitrogen stainless steel, 162-178
non-metallic inclusion, 3-22, 117-161, 203-217

O

over rolling fatigue, 102-113

P

pitting corrosion, 162-178
Polymet, 162-178

R

raceway grooving, 291-302
reheating, 303-328
residual stress, 329-340
roller bearings, 218-236
rolling bearing life, 382-407
rolling contact fatigue, 3-22, 50-66, 117-161, 162-178, 291-302, 355-381, 382-407, 408-421
rolling contact fatigue testing, 268-288, 341-352
rolling element bearing, 50-66
rolling-contact-fatigue life, 257-267

S

SAE 52 100, 117-161
silicon nitride, 36-49
statistical estimation, 382-407
steady state fatigue accumulation, 341-352
steel making, 203-217
steel qualification, 117-161
steel quality, 117-161
subscale, 50-66
sub-surface fatigue propagation, 23-35
sub-surface inclusion detection, 67-83, 84-101
subsurface rolling contact fatigue, 303-328
surface wave scanning, 67-83, 84-101

T

test method, 291-302
test rigs, 50-66
testing, 50-66
tool steel, 162-178
tribological rolling contact model, 329-340
TRL, 50-66

U

ultrasonic fatigue, 181-202
ultrasonic scanning, 67-83, 84-101
ultrasonic test, 257-267
ultrasonics, 268-288

W

Weibull, 382-407
Weibull statistics, 117-161

X

X-ray diffraction bearing life calibration, 303-328
X-ray diffraction line broadening, 329-340
X-ray diffraction material response analysis, 303-328