AUTHOR INDEX TO VOLUME 15

Aalburg, C., 271
Abraham, John, 249

Bauckhage, K., 169
Becker, T., 423
Brenn, Günter, 661

Carreau, Jean-Louis, 223
Chauveau, C., 413
Chen, Chia-Chin, 81
Chiu, Huei-Huang, 377
Choi, Chul Jin, 469
Cossali, G. E., 699
Czisch, C., 169

Desantes, J. M., 489, 517
Dodin, Zusia, 401
Dooher, John P., 585
Downey, D., 423
Dunand, Arnaud, 223

Faeth, G. M., 271
Founti, M. A., 1
Fritsching, U., 169
Fu, Huijuan, 295
Fukai, Jun, 61

Giles, D. K., 423
Gimeno, J., 489
Gokalp, I., 413
Grünefeld, Gerd, 323

Helenbrook, Brian T., 363
Hewson, John C., 119
Hogue, J., 423
Huang, Tzu-Hong, 457
Huang, Wennon, 457

Ishizuka, Hirotaka, 61
Iyer, Venkatraman, 249
Izquierdo, M., 439

Jahannama, M. R., 603, 629
Jiang, Tsung-Leo, 457

Katoshevski, David, 401
Kolaitis, D. I., 1
Krüger, Sascha, 323

Lai, Wei-Hsiang, 81, 457
Laryea, G. N., 133
Lee, S. J., 413
Lee, Sang Yong, 469
Leonard, Mark T., 567
Li, Meishen, 295
Li, Xianguo, 295
Lim, Jongmook, 687
Lin, Ta-Hui, 545
Liu, Weiping, 567
Lohner, H., 169
Lörcher, Marc, 145
Lueptow, Richard M., 341

Marengo, M., 699
Mates, S. P., 19, 41
Mewes, Dieter, 145
Micci, M. M., 413
Moreira, A. L. N., 201
Morozumi, Yoshio, 61

Nigen, S., 103
No, S. Y., 133
Nogueira, J. I., 439

O'Donnell, Brian J., 363
Owens, Edward H., 567

Panão, M. R. O., 201
Pastor, J. M., 489, 517
Pastor, J. V., 517
Payri, R., 489, 517
Prebeg, Zeljko, 661

Ramamurthi, K., 181
Rensink, Dirk, 661
Rodríguez, P., 439
Roger, Francis, 223
Rossow, Björn, 323

Sallam, K. A., 271
Santini, M., 699
Scher, H., 423
Schmidt, Florian, 145
Schreckenberg, P., 169
Settles, G. S., 19, 41
Sheppard, David T., 341
Sivathanu, Yudaya, 687

Smith, George H., 567

Tharakan, T. John, 181
Tsai, Chih-Hsin, 545
Tsai, Hsin-Luen, 377

van Leer, B., 271
Venegas, M., 439
Vieille, B., 413

Watkins, A. P., 603, 629
Winetzky, D., 423

Yarin, Alexander L., 661
Yoon, Sam S., 119
Yule, A. J., 603, 629

Ziskind, Gennady, 401

SUBJECT INDEX TO VOLUME 15

A

Absorption refrigeration systems, 439
Activation energy asymptotics, 545
Aerodynamic force, 469
Aerosol
  clustering, 401
  flows, 401
  particle/droplet dynamics,
    mathematical analysis of, 401
Air-atomized sprays, 603 pt 1, 629 pt 2
Atomization, 169, 223, 585
  effervescent, 145
  gas, 169
  pressure, 169
Atomizing
  gas, 469
  nozzle, 567

B

Binary droplet collision, 61
Breakup regime, 81, 145

C

Cavitating conditions, 489
Chiu number, 377
Close-coupled nozzles, 19, 61
Clouds, 119
Coal slurry
  atomization, 585
  fuels, 585
Colliding droplets, 61
Collisional model, 585
Computational parcels, 119
Conical liquid sheets, 661
Contraction coefficients, 489
Cool flame reactor, 1
Core air flow, 469
Critical oxygen concentration, 81
Crop spraying, 603 pt 1, 629 pt 2
Crowns, 201
Cylindrical fluid stream, 585

D

DI diesel engines, 377
Diesel engine conditions, 249
Diesel spray
  behavior, 489, 517
  evaporation, 1
Diffusion, 545
Drag model, 363
Drop
  coalescence, 585
  impingement models, 699
Droplet, 103, 201
  characterization, 567
  clustering, 401
  elongated, 61
  formation, 469
  motion, 1
  plume, 567
Droplet size, 201, 295, 545
  distributions, 567
  spectra, 423
Droplet sizing,
  interferometric laser imaging, 323

E

Eddy shedding, 271
Electrostatic
  charge, 133
  effects, 603 pt 1, 629 pt 2
Electrostatic forces, 133
Elongational viscosity characteristics, 423
Ensemble-averaged measurements, 323
Entropy generation, 295
Eulerian-liquid Eulerian-gas (ELEG), 249
Evaporative conditions, 517
Extinction of premixed flames, 545

F

Fan speed, 133
Fire sprinkler sprays, 341
Flame stretch, 545
Flat-fan atomizers, 661
Flow
  field, 1
  regime, 145
Fluid dynamic interactions, 201
Fluid dynamics code,
  two-phase computational, 1
FLUorescent tracer, 133
Fragmentation, 223
Fuel evaporation, 1, 489, 517

G

Gas
  atomization, 61
  dynamics, 19

field motion, 1
flow field, 169
jet, annular swirling, 223
-liquid mixtures, 145
-phase ignition, 377
streams, 181
Gasoline spray, 201
Gaussian distributions, 119
Grounded target, 603 pt 1

H
High-velocity air stream, 585
Hollow liquid jet, 469
Homogeneity, 567
Hydrodynamic force, 469

I
Impact velocity, 103
Impinging-jet sprays, 457
Inert sprays, 545
Injection parameters, 489
Internal heat loss, 545

L
Lagrangian-drop eulerian-fluid (ldef), 249
Large-eddy simulation techniques, 341
Lateral wave modes, 181
Liquid
fuel evaporation, 1
oxygen droplet surface tension, 413
sheets, 181
sheets, conical, 661
spray penetration, 517
vaporization, 545
Liquid jet breakup, 223
Liquid metal
atomization, 19, 61
breakup, 61
metal jet, 81

M
Malvern size analyzer, 585
Mass flux ratio, 19, 61
Maximum entropy principle (MEP), 295
Melt fragmentation, 169
Melt jet, 169
Metal powders, 19, 61
Molecular dynamics simulation, 413
Molten metal jet, 81
Monodisperse droplet stream, 323
Monosized droplet generation, 81
Multidimensional spray models, 249
Multiple-drop impact, 699

N
Negative stretch, 545
Nonevaporative conditions, 489
Nonturbulent round liquid jets, 271
Nozzle
behavior, 489
flow, 489, 517
geometry, 19, 489
orifice spray, 567
stagnation pressures, 61
swirl, 133
vibration, 661
Nozzle,
air-atomizing induction-charging, 603 pt 1, 629 pt 2
close-coupled, 19, 61
multiorifice spray, 687

O
Oblate ellipsoids, 363
Optical patternation, 687
Orchard canopy sprays, 133
Oscillating flows, 401
Oxide islands, 81
Oxygen concentration, 81

P
Parcel size distribution, 119
Parcels, 119
Particle image velocimetry, 341
Phase doppler anemometry (pda), 201
Plant canopy, 133
Powder
manufacturing, 61
production, 169
Pressure atomizer, 567
Prevaporized mode, 545

R
RANS equations, 1
Rheological properties, 585
Rotation intensity, 223
Round liquid jets, 271

S
Sampling, 119
Sauter mean diameter (SMD), 469, 567, 585
Schlieren

photography, 19
technique, 61
Shear rate, 585
Single-drop
empirical model, 699
impact, 699
Spectrophotometry analysis, 603 pt 1, 629 pt 2
Spherical particle granulation, 169
Spheroidization, 169
Spray
absorbers, 439
angle, 585
configuration, 469
deposition, 133
evaporative behavior, 517
impact, 699
impingement on solid walls, 699
momentum, 489
penetration, 249
plume, 567
tip penetration, 489
visualization, 489
Spray,
air-atomized 603 pt 1, 629 pt 2
fire sprinkler, 341
gasoline, 201
inductively charged, 603 pt 1, 629 pt 2
inert, 545
like-doublet impinging-jet, 457
water, 545
Stabilized cool flame, 1
Stagnation point, 223
Static surface tension, 103
Stefan blowing effect, 1
Surface tension, 413
Swirl
motion, 223
nozzles, 133
Swirling coaxial gas jet, 223

U

Uniform gaseous cross flows, 271

V

Vaporization, 517, 545
Viscoelastic properties, 585
Viscosity, 585
Viscous
liquid sheets, 181
melts, 169
mineral melts, 169

W

Water sprays, 545

X

Xanthan gum, 585

Y

Yield-stress material, 103