

- $\alpha$  effect, 3  
 $\beta$  index variations, 179  
 $\lambda$  Boo stars  
  and Vega, 391, 419
- absolute magnitude  
  of  $\epsilon$  UMa, 350
- absorption features  
  \lambda 5200, 155  
  silicon stars, 105
- abundance, 149  
   $\beta$  Lyr, 365  
  Am stars, 435  
  and instabilities, 395  
  Ap stars, 319  
  boron, 118  
  carbon, 78  
  CNO, 118, 400, 405, 412  
  cool CP stars, 307  
  correlations in Am, 437  
  gallium, 421  
  heavy elements, 327  
  Hg-Mn stars, 400  
  HR 6000, 406  
  in HR 562, 425  
  in 32 Aqr, 455  
  iron, 112  
  iron deficiency, 428  
  IUE, 110, 391  
  lithium, 447, 451  
  lunar crust, 475  
  mean value for surface, 47  
  mercury, 114  
  normal, 398  
  normal O and B stars, 369  
  origin of anomalies, 438  
  rare earths, cool CP, 311  
  Sirius, 405  
  solar photosphere, 398  
  statistical methods, 407  
  surface distribution, 125
- abundance anomalies  
  accretion, 473  
  origin, 473  
  planetesimal impact, 473
- abundance correlations  
  in Am stars, 443
- abundance distribution, 259, 260  
  abundance patches, 141  
    rings vs. spots, 392, 393
- abundance pattern, 118
- abundance stratification  
  vertical, 262
- actinides, 327
- Adelman, S., 201, 209, 305, 455
- age  
  stellar, 167
- Al Naimiy, H. M., 171, 173, 301
- Alecian, G., 381
- algorithms  
  regularizing, 135
- aluminum, 399
- Am binaries  
  two groups, 445
- Am stars  
  review, 433
- Am-Fm stars  
  theory, 459
- amplitude-wavelength  
  relation, 271
- angular momentum, 169
- ANS  
  photometry, 315
- Artru, M.-C., 421  
  silicon stars, 105
- ASTRON  
  space station, 327
- asymmetries  
  lines, 408
- atlas  
  spectral, 374
- atomic data  
  missing, 94, 99
- atomic spectra  
  Cr I, 49  
  Fe II, Si II, 121  
    known terms, 100  
    new Fe II analysis, 103  
    predicted lines, 99  
  Si II, 103
- autoionization  
  Si II, 121
- Baade, D., 234

- Balmer lines  
 variations, 179, 181
- Barzova, I., 351
- Baschek, B., 434
- beryllium, 399, 405
- binaries  
 close, anomalies, 473  
 spectroscopic, 205
- binarity, 156
- binary stars  
 Hg-Mn, 411  
 long period, 24  
 sources of fields, 24
- binary, spectroscopic  
 $\beta$  CrB, 356
- binary, visual  
 $\beta$  CrB, 356
- birefringency  
 magnetized atmosphere, 81
- bismuth, 403
- blanketing, 73  
 HD 27309, 291  
 mechanisms, 179, 181
- blends  
 $\text{Cr I } \lambda 4254$ , 49  
 fictitious, 103
- Boesgaard, A., 399, 436  
 lithium observations, 470
- boron, 399, 401, 405
- Borra, E. F., 301
- Boyarchuk, A., 433
- braking, 167, 170  
 rotation, 156, 177
- Burkhart, C., 447
- Burnashev, V., 341
- Burnet, M., 253
- C IV  
 resonance doublet, 266
- carbon  
 C IV, 409  
 deficient, 404  
 in  $\alpha$  Lyr, 400  
 in  $\lambda$  Boo stars, 409
- Castelli, F., 451
- Catalano, F., 149, 191
- chemical composition  
 $\text{Ap}$  stars, 319
- chemical peculiarities, 2, 4
- chemical profile, 263
- Cherepaschuk, A.  
 inverse problems, 135
- chlorine  
 HD 34452, 122
- Chunakova, N., 33
- circumstellar material, 191
- clusters, 167, 410  
 Hyades, 459  
 membership, 155
- coincidence statistics, 93, 407
- colors  
 silicon stars, 288
- Conti, P., 435
- continuum  
 setting, 123
- continuum features, 341
- convection  
 overstable magnetic, 223, 228  
 turbulent, 223
- convection zone, 53, 459
- copper, 401
- corona  
 of Vega, 417
- coronae, 388
- Coupry, M., 447
- Cowley, C., 91, 99, 305, 406
- CP1 stars, 206
- CP2 stars, 205, 220
- damping constant, 374, 391
- Delta Scuti, 461
- Delta Scuti stars, 253
- Delta-a photometry, 183
- detectors  
 InSb, 191
- Deutsch, A., 141
- diagnostics, spectroscopic, 65
- dichroism  
 magnetized atmosphere, 81
- Didelon, P., 276, 421
- differential correction, 172
- differential rotation, 53
- differentiation  
 igneous, 473  
 isotopic, 473, 476
- diffusion  
 and age, 166  
 and rapid variations, 387
- Bohm, 287, 392
- horizontal, 387, 393
- in magnetic fields, 384, 392
- magnetic, 395
- magnetic stars, 381
- overview, 383

- refinements, 287  
 silicon, 287, 288  
 theory, non-magnetic, 459  
 time dependent, 280, 381,  
     388, 465  
 with mass loss, 465  
**discussion**  
 Adelman-Cowley, 315  
 Alecian, 392  
 Artru-Lanz, 121  
 Boyarchuk-Savanov, 443  
 Cowley-Johansson, 103  
 Dolginov, 23  
 Dworetsky, 417  
 Hensberge-Van Rensbergen, 163  
 Hill-Adelman, 217  
 Hubený, 77  
 Johansson-Cowley, 103  
 Khokhlova, 133  
 Klochkova-Kopylov, 166  
 Krause and Scholz, 55  
 Leckrone, 122  
 Ménessier, 287  
 Musielok, 181  
 North, 181  
 Plachinda, 49  
 Ryabchikova, 49  
 Sadakane, 391  
 Severny-Lyubimkov, 345  
 Weiss, 233  
 Źelwanowa-Schöneich, 287  
 Dolginov, A., 11, 81, 395  
 drift effects, 192  
 Drobyshevski, E., 473  
 duplicity (see also binarity), 151,  
     152, 157  
     of stars, 205  
 dust disks, 191  
 Dworetsky, M. M., 109, 397  
 dynamo mechanism, 55  
  
 Eddington-Sweet circulation, 7  
 effective temperature, 153  
     hot CP stars, 257  
     normal O and B stars, 371  
 energy levels  
     atomic, 99  
 equator  
     symmetric rotator, 172  
 evolution, 159  
      $\beta$  CrB, 355  
     on main sequence, 79  
  
 Faraday rotation, 81  
 Faraggiana, R., 451  
 Floquet, M., 451  
 flux  
     distributed, 199  
     infrared, 191  
     integrated, 199  
 flux depressions, 419  
 Fourier analysis, 239  
 Freire, R., 421  
  
 galactic  
     groups, 159  
 gallium, 401, 406  
     abundances, 420  
     in silicon star, 421  
     silicon stars, 288  
 Geneva photometry, 199  
     HD 24975, 253  
 Gerbaldi, M., 451  
 Gergeva, E., 295  
 Gershberg, R., 25  
 Gerth, E., 235  
 Gertner, J., 199  
 Glagolevskij, Yu., 29, 33  
 Gnedin, Yu., 81  
 Gnedin, Yu. N., 87  
 Goncharski, A.  
     inverse problems, 135  
 gravitational settling, 464  
 gravity, stellar, 168  
 groups  
     galactic, 159  
 Guthrie, B., 404, 411  
  
 Hartoog, M.  
     magnetic braking, 181  
 Hayashi phase, 4, 5  
 helium, 459  
     deficient, 404  
     in silicon stars, 287, 288  
     surface enrichment, 257, 259  
 helium abundance  
     and T(eff), 166  
 helium band, 260  
 helium cap, 259  
 helium content, 179  
 helium lines  
     phase shift, 181  
 helium rich stars, 467  
 helium stars, 257  
 helium variables, 179

- helium-weak stars, 271, 420  
 Hempelmann, A., 171, 189, 299  
 Hensberge, H., 151, 175, 183  
 Hg-Mn stars, 400, 408, 420, 459  
     and Am stars, 443, 444  
 Hildebrandt, G., 189, 299  
 Hill, G., 209  
 horizontal branch  
     hot, 459  
 horizontal migration  
     silicon, 278  
 Hubble Space Telescope, 109, 418  
     search for uranium, 345  
 Hubený, I., 57  
 Hulbrig, S., 347  
 Hunger, K., 257  
 Hyades, 459  
 hydrogen lines  
     profile calculations, 445  
 identifications  
     spectral lines, 93  
 Iliev, I., 291, 351  
 infrared, 191  
     Ca II lines, 323  
     excess, 260  
     filter bands, 191  
     Ori,  $\sigma$ E, 265  
     Paschen lines, 323  
 inhomogeneities  
     surface, 125  
 instabilities  
     and abundances, 395  
 integral polarization, 82  
 integrated flux method, 191  
 inverse problem, 171  
 ionization potential  
     lowering, 77  
 IRAS  
     Ori,  $\sigma$ E, 265  
 iron, 405  
     abundance, 112  
     deficient, 400, 404, 407  
 iron deficiency  
     in HR 562, 428  
     in 32 Aqr, 455  
 iron group  
     atomic spectra, 99  
 IUE, 109  
     co-addition, 122  
     normal O and B stars, 373  
     spectra, 420  
 Jacobs, J., 109  
 Jamar, C., 299, 301, 303  
 Johansson, S., 91, 99  
 Jugaku, J., 420  
 kappa mechanism, 223, 228  
 Karttunen, H, 243  
 Khokhlova, V., 125, 137, 179  
 Klochkova, V., 29, 159  
 Kocer, D., 455  
 Kolev, D, 295  
 Kopylov, I., 159  
 Krause, F., 51  
 Kroll, R., 191  
 Kurtz, D., 173, 239  
 Kurucz, R., 61, 398  
 Kuznetsova, T., 323  
 Landstreet, J., 301  
 Lange, D., 189, 299, 301  
 Lanz, T.  
     silicon stars, 105  
 lead  
     abundance, 330  
 Leckrone, D. S., 61, 109  
 Lester, J., 63  
 light curves, 271  
     analysis, 171  
 line asymmetry  
     in HR 562, 428  
 line blanketing, 73  
     metal lines, 262  
 line lists  
     stellar, 374, 377  
 lithium  
     in Am and  $\delta$  Dels, 447  
     in CP stars, 451  
     in Hyades stars, 459  
     theory, 459  
 low harmonic  
     pulsating CP2, 229  
 LTE, 57  
     and Kurucz's models, 444, 445  
 luminosity,  $\beta$  CrB, 356  
 Lunel, M., 447  
 Lyubimkov, L., 327  
 Magazzu, A., 312  
 magnesium, 400  
     deficient, 404, 409  
 magnetic braking, 277

- magnetic diffusion  
forces, 287
- magnetic field, 156, 173  
 $\beta$  CrB, 41  
 $\beta$  Lyr, 365  
 $\lambda$ 5200 feature, 184, 186  
and age, 29  
and other parameters, 33  
Bierman effect, 13  
braking, 33, 167, 170, 181  
chemical inhomogeneities, 14, 16  
convection, 223  
curve-of-growth, 45  
decay, 29  
decay of, 8  
determination, 87  
distribution, 149  
dynamo theory for, 1, 8, 9, 12  
dynamo, non-axisymmetric, 51  
fossil, 29  
fossil theory for, 1, 4, 8,  
9, 11, 16  
general discussion, 23, 24  
generation in binaries, 17  
Geneva Z, 33  
geometry, 125  
Hg-Mn stars, 408  
in hot stars, 391  
internal structure, 25  
Lorentz force, 181  
normal stars, 408  
oblique rotator, 155, 177, 185,  
257, 259  
origin, 1, 11  
oscillations, 233  
oscillatory dynamo, 52  
photometric variables, 272  
quadrupole, 260  
rapid oscillations, 37  
rotation, 40  
spots, 25  
stability of, 5  
structure of, 5  
supergiants, 55  
surface, 33, 45, 320  
theory, 1  
thermally unstable, 19  
traps, 287  
upper limits, 417  
variable, 261  
winds, 266
- 33 Gem, 403
- magnetic stars  
cool, 305  
diffusion, 275, 381  
intermediate temp., 275  
theory, 461  
UV spectrum, 276
- magnetic variables, 261
- magnetospheres, 194  
hot CP stars, 265
- magnetospheric plasma, 268
- Maitzen, H., 183
- Malanushenko, V., 243, 341
- manganese, 399, 407
- manganese stars, 459  
 $a$  And, 427  
HR 562=HD 11905, 425
- mapping  
element distribution, 137  
technique, 133
- Marcau-Hercot, D., 301
- mass loss, 373  
abundance anomalies, 463
- mass,  $\beta$  CrB, 356
- masses, 153
- Matthews, J., 239
- Mégeissier, C., 253, 275
- Mendoza V., E., 195
- mercury, 402  
abundance, 95, 114
- meridional circulation, 460  
and magnetic fields, 24  
suppression, 24
- metal deficient stars, 409
- metallic-line stars  
 $a$  CMa, 405  
 $\sigma$  Peg, 407  
 $\sigma$  Aqr, 398, 407  
binarity, 77, 78  
duplicity, 163  
origin, 475  
review, 433
- Michaud, G., 278, 381, 459
- microturbulence, 92, 376, 391, 398,  
411  
velocity, 47, 418
- Mihalas, D., 57
- missing transitions  
atomic, 99  
strengths, 104

- MK classification  
 A0 stars, 411  
 mode identification, 225, 227  
 model atmosphere, 57  
 abundances from, 319  
 analysis of HR 562, 426  
 non-LTE, 57, 63  
 normal stars, 61  
 peculiar stars, 61  
 Morrison, N. D., 173  
 Moss, D., 1  
 Muciek, M., 199  
 Musielok, B., 179, 299, 301
- National Bureau of Standards  
 US data center, 103  
 non-LTE, 57, 373  
 abundances, 70  
 C II, 77  
 Case A, B, C, 60, 62  
 coupling-decoupling, 58  
 in He I, 77  
 individual atoms, 66, 69  
 ionization shifts, 68  
 line blanketing, 74  
 rare earths, 68  
 simplest situations, 59  
 type C, 77  
 non-radial oscillations, 223  
 North, P., 167, 199, 253  
 nuclear processes  
 abundance correlations, 443  
 null lines  
 mapping, 134  
 null wavelength regions, 199
- oblique pulsator, 173, 220, 239, 241  
 oblique rotator, 141, 177, 185, 234, 257, 259  
 model, 7  
 Oetken, L., 174, 355  
 OI  
 photometry, 195  
 open clusters, 410  
 Orion aggregate, 257  
 oscillations  
 non-radial, 220, 223  
 rapid, 220  
 solar, 222  
 stellar, 233
- oscillator strengths  
 astrophysical, 103  
 predicted lines, 104  
 recent NBS work, 103  
 sources, 426  
 oxygen abundance  
 excess in Si star, 121
- parallax  
 of  $\epsilon$  UMa, 347  
 parameter-free model, 461  
 PDS  
 microdensitometers, 217  
 peculiarity index, 159  
 period  
 helium-weak stars, 272  
 HR 6127, 430  
 rotational, 208  
 spectroscopic, CP3, 206  
 perpendicular rotator 2, 4, 6  
 Peterson, D., 61  
 phosphorus, 403  
 photographic plates  
 averaging, 217  
 photometric variability, 183  
 photometry, 239  
 $\lambda$ 5200, 201  
 ANS, 315  
 continuum features, 201  
 cool CP stars, 305  
 Geneva, 167, 199  
 H $\alpha$ , OI, 195  
 infrared, 154, 191  
 light curves, 271  
 null wavelengths, 199  
 rapid variations, 189  
 separation of classes, 195  
 table of measurements, 196  
 transformation, 192  
 UV, ANS, 271  
 variability, 175  
 Piskunov, N., 45, 128  
 Plachinda, S., 41  
 planetary systems, 474  
 planetoid-impact  
 hypothesis, 473  
 planetoids  
 moon-like, 473  
 plasma, magnetospheric, 268  
 platinum, 402  
 Pogodin, M. A., 87

- polarization  
 electron scattering, 81  
 field determinations, 87  
 integral, 82  
 Polosukhina, N., 243, 341  
 power spectrum  
 window, 233  
 Praderie, F., 301, 436  
 precession, 6  
 Preston, G. W., 173  
 profile, chemical, 263  
 profiles  
 spectral line, 137  
 Ptitsyn, D., 319, 425  
 pulsation, 173, 189, 235  
 low harmonic, 229  
 non-radial, 239, 241  
 Pyper, D., 201
- radial velocity  
 Hg-Mn stars, 408  
 hot CP stars, 259  
 of  $\epsilon$  UMa, 348  
 statistical, 407  
 variations, 429  
 radiation, synchrotron, 265  
 radiative acceleration, 459  
 radiative transfer  
 in magnetic fields, 81  
 radii, 153  
 stellar, 78  
 rapid oscillations, 220  
 rapid variations, 189, 239  
 and diffusion, 387  
 HD 24975, 253  
 radial velocity, 235  
 53 Cam, 243  
 rare earths  
 cool CP stars, 311  
 non-LTE, 68  
 Rayleigh-Jeans approximation, 194  
 Red'kina, N. P., 87  
 regularizing algorithms, 133, 135  
 Reimers, D., 434  
 Rensbergen, W. Van, 151  
 Rice, J., 137  
 rigid rotator model, 7  
 Romanyuk, I. I., 33, 359  
 Romanov, Yu., 77  
 rotation, 33, 167  
 braking, 156, 177  
 differential, 55  
 periods, 167  
 synchronous, CP3, 207  
 variability, 173  
 rotation, differential, 53  
 rotational period  
 distribution, 169  
 rotator  
 oblique, 141  
 Rufener, F., 199  
 Ryabchikova, T., 45, 319, 425  
 Sadakane, K., 109, 369, 420  
 Salmanov, G., 299, 301  
 saturation, 91  
 Savanov, I., 433  
 Schneider, H., 191, 205  
 Schöneich, W., 171, 189, 271, 299  
 Scholz, G., 51  
 Sco-Cen Cluster  
 and surface gravities, 181  
 second-generation lines, 95, 99  
 separation  
 isotopic, 473, 476  
 Severny, A., 327  
 short-period variations, 189  
 Silant'ev, N., 81  
 Silantev, N. A., 87  
 silicon  
 deficient, 404  
 diffusion, 392  
 Si IV, 409  
 silicon stars, 105, 420  
 Bp-Ap, 275  
 effective temperatures, 287, 288  
 gallium, 288  
 Skul'skij, M., 365  
 Smith, M., 434  
 solar oscillations, 222  
 space observations, 109  
 space telescope, 123  
 Space Telescope, 418  
 space telescope  
 Hg - Mn stars, 123  
 magnetic stars, 123  
 Space Telescope  
 search for uranium, 345  
 speckle interferometry  
 $\beta$  CrB, 355  
 spectra  
 atomic, 99

- co-added, 209  
 CP stars in groups, 159  
 IUE, 420  
 lithium region, 452  
 pulsational profiles, 234  
 reduction programs, 209  
 UV, 369  
**spectral lines**  
 asymmetries, 408, 428  
 chromium, 137  
 identifications, 93  
 iron, 137  
 profiles, 137  
 silicon, 137  
 synthesis, 94  
**spectral variations**  
 HD 51418, 351  
 rare earths, 351  
**spectrophotometry**, 201  
 DAO programs, 209  
**spectroscopic diagnostics**, 65  
**spectrum synthesis**, 334, 376  
**spectrum variable**  
 HR 6127, 429  
**spots**  
 chemical, 395  
 HD 51418, 354  
**spots, stellar**, 171  
**spotted pulsator**, 221  
**stars**  
 $\delta$  Scuti, 461  
 $\lambda$  Boo, 409  
 Ae/Be, 87  
 age, 167  
 age of  $\epsilon$  UMa, 347  
 binarity, 205  
 duplicity, 205  
 gravity, 168  
 He-weak, 420  
 helium, 257  
 helium weak, 271  
 Herbig, 87  
 Hg-Mn, 420  
 hot, 369  
 magnetic, 125  
 manganese, 425  
 masses, 153  
 masses, hot CP, 257  
 metal deficient, 409  
 normal, 320, 369  
 periods, 272  
 photometry, 167  
 radii, 153  
 rotation, 167  
 rotational periods, 167  
 Si, 420  
 Si-Cr type, 319  
 silicon, 291  
 spots, 299  
 spotted pulsator, 221  
 supergiant, 51  
 table of, 281  
**stars, individual**  
 $\alpha$  And, 403, 408, 427  
 ET And, 235  
 $\theta$  Aql, 398  
 21 Aql, 110, 345, 398  
 46 Aql, 406  
 $\sigma$  Aqr, 45, 398, 407  
 32 Aqr, 455  
 56 Ari, 179  
 $\theta$  Aur, 128, 134, 137, 295  
 $\lambda$  Boo, 397, 409, 413, 459  
 $\pi^1$  Boo, 118  
 53 Cam, 134, 141, 143, 199, 243,  
     341  
 $\nu$  Cap, 110, 118, 398, 399, 403  
 23 Cas, 406  
 $\nu$  Cep, 51, 55  
 $\pi$  Cet, 110, 118, 398, 403  
 $\alpha$  CMa, 118, 399, 404, 405, 411,  
     413  
 $\kappa$  Cnc, 110, 118, 332, 401, 407,  
     408  
 $\nu$  Cnc, 404  
 $\beta$  CrB, 41, 49, 341, 355, 359  
 $\iota$  CrB, 110, 118, 401, 408  
 $\alpha^2$  CVn, 128, 134, 359, 408  
 29 Cyg, 409  
 $\phi$  Dra, 179  
 38 Dra, 404  
 73 Dra, 332, 345  
 $\gamma$  Gem, 399, 404  
 33 Gem, 403  
 HD 1909, 118  
 HD 2453, 46, 319  
 HD 34452, 121  
 HD 358, 403, 408  
 HD 4382, 406  
 HD 5737, 410  
 HD 8441, 46, 319

- HD 9996, 345  
 HD 11905, 404, 407, 425  
 HD 17081, 118, 398, 403  
 HD 21699, 267  
 HD 23408, 401, 405, 410  
 HD 23950, 410  
 HD 24712, 173, 221, 226, 228  
 HD 24975, 253  
 HD 25823, 421  
 HD 27295, 118, 402  
 HD 27309, 291  
 HD 33904, 118, 401  
 HD 35548, 404  
 HD 37776, 1  
 HD 38899, 118, 398, 399  
 HD 40132, 137  
 HD 41040, 406  
 HD 41695, 398  
 HD 47105, 399, 404  
 HD 48915, 118, 399, 404, 405,  
     411, 413  
 HD 49333, 263  
 HD 49606, 403  
 HD 51418, 179, 351  
 HD 60405, 239  
 HD 60435, 229  
 HD 77350, 401, 404, 407, 408  
 HD 78316, 118  
 HD 79158, 409  
 HD 83368, 226  
 HD 89353, 409  
 HD 89822, 118, 401, 405  
 HD 94660, 175  
 HD 97633, 118  
 HD 109995, 110  
 HD 110066, 46  
 HD 110073, 118  
 HD 110411, 409  
 HD 112413, 408  
 HD 116458, 175  
 HD 118022, 46  
 HD 119288, 228  
 HD 125162, 397, 409, 413  
 HD 126515, 134  
 HD 128898, 227  
 HD 129174, 118  
 HD 130095, 118  
 HD 138764, 398  
 HD 141556, 118, 401, 404, 408  
 HD 143807, 118, 401, 408  
 HD 144206, 404  
 HD 144667, 406  
 HD 144668, 406  
 HD 145389, 118, 402, 408, 411  
 HD 149121, 118  
 HD 151771, 175  
 HD 152107, 323  
 HD 168733, 46  
 HD 169022, 409  
 HD 169027, 404  
 HD 170000, 299  
 HD 172044, 401  
 HD 172167, 399, 405, 408, 413  
 HD 173650, 189  
 HD 174933, 118, 401  
 HD 179761, 398  
 HD 181470, 398, 407  
 HD 182308, 118, 401  
 HD 184905, 189  
 HD 184927, 179, 181, 266  
 HD 186122, 406  
 HD 187474, 175  
 HD 188041, 179  
 HD 190229, 118  
 HD 192640, 409  
 HD 192913, 46, 319  
 HD 193432, 118, 398, 403  
 HD 193452, 402, 405  
 HD 196502, 345  
 HD 201601, 227, 229  
 HD 204411, 189  
 HD 204754, 407, 417  
 HD 207857, 118  
 HD 209459, 398, 406  
 HD 213320, 398, 407  
 HD 214994, 118, 407  
 HD 215441 (Babcock's), 179, 181  
 HD 215573, 118  
 HD 219749, 190  
 HD 221568 (Osawa's), 133, 179, 181  
 HD 224801, 190  
 φ Her, 118, 402, 408, 411  
 v Her, 404  
 28 Her, 118  
 52 Her, 323  
 112 Her, 401  
 HR 89, 118  
 HR 465, 345  
 HR 562, 404, 407, 425  
 HR 1185, 410  
 HR 1800, 404  
 HR 2095, 137

- HR 2154, 398  
 HR 4049, 409  
 HR 4072, 118, 401, 405  
 HR 4263, 175  
 HR 4817, 118  
 HR 5049, 175  
 HR 5780, 398  
 HR 5999, 406  
 HR 6000, 406  
 HR 6127, 429  
 HR 6244, 175  
 HR 6997, 401  
 HR 7338, 398, 407  
 HR 7361, 118, 401  
 HR 7552, 175  
 HR 7664, 118  
 HR 7775, 118, 402, 405  
 HR 7879, 345  
 HR 8226, 407, 417  
 HR 8349, 118  
 HR 8410, 455  
 $\theta$  Leo, 110, 118  
 $\mu$  Lep, 118, 401  
 $\chi$  Lup, 118, 401, 404, 408  
 36 Lyn, 409  
 $\alpha$  Lyr, 123, 399, 405, 408, 413  
     417, 418  
 $\alpha$  Lyr, abundances, 391  
 $\beta$  Lyr, 365  
 $\xi$  Oct, 118, 122  
 $\omega$  Oph, 332  
 $\sigma$  Ori E, 257, 261, 265  
 64 Ori, 406  
 $\sigma$  Peg, 110, 118, 407  
 21 Peg, 398, 406  
 $\alpha$  Scl, 410  
 $\chi$  Ser, 128  
 $\epsilon$  Sgr, 409  
 $T$  Tau, 88  
 20 Tau, 401, 405, 410  
 41 Tau, 179, 288  
 53 Tau, 118, 402, 428  
 134 Tau, 110, 118, 398, 399  
 $\epsilon$  UMa, 77, 128, 347  
 $\lambda$  UMa, 332  
 Vega, abundances, 391  
 Vega, see also  $\alpha$  Lyr  
 $\theta$  Vir, 322  
 $\rho$  Vir, 409  
 CU Vir, 128, 134, 179, 181  
 78 Vir, 46
- Stokes parameters, 125  
 stratification, 417, 418  
     and radiative transfer, 79  
     of abundances, 386  
 stratification, abundance, 262  
 Strom, S., 61  
 Stromgren photometry  
      $T_{\text{eff}}$ ,  $\log(g)$ , 444  
 subdwarf, 467  
 supergiant, 51  
 surface brightness, 199  
 surface enrichment  
     helium, 257, 259  
 surface gravity  
     and rotation period, 181  
     determination, 444  
     hot CP stars, 257, 259  
 synchrotron radiation, 265  
 synthesis, spectral 94, 108, 376  
     near gallium line, 422  
 systematic errors  
     equivalent widths, 92  
 systematics, 205  
     binarity, 205
- Takada-Hidai, M., 420  
 temperature  
      $T - \tau$  relation, 228  
 temperature, effective, 153  
 theory  
     abundance anomalies, 275  
     Am-Fm stars, 459  
     chemical peculiarities, 381  
     non-magnetic stars, 459  
 thorium  
     abundance, 330  
 Tikhonov, A., 133  
     algorithms, 135  
 tokamak  
     magnetic traps, 287  
 transition probabilities, 371, 378  
 Tuominen, I., 243  
 Tutukov, A., 49
- ultraviolet  
     ASTRON observations, 327  
     IUE, 373  
 Unno's solution, 125  
 uranium  
     lines in CP stars, 345

- UV Želwanowa, E., 189, 271, 299  
photometry, ANS, 271 Žiznovský, J., 429  
photometry, TD-1, 274, 419
- Van Rensbergen, W., 151
- Van't Veer, C., 447
- vanadium
- in Am stars, 443
- variability
- blanketing, 291
  - photometric, CP3, 208
  - rotational, 173
  - spectral, 296
- variable
- light, 429
  - spectrum, 429
- variables
- $\beta$  index, 179
  - helium, 179
- variations
- $\lambda 5200$  feature, 183
  - Balmer lines, 179
  - photometric, 183
- Vauclair, G., 381
- Vauclair, S., 381
- Vincze, I.
- Deutsch method, 141
- Virtanen, H., 243
- VLA observations
- Ori,  $\alpha$ E, 265
- Voigt, H., 191
- Vorontsov, S., 37
- Wallerstein, G., 436
- wavelength lists
- stellar, 374, 377
- WCS techniques, 93, 407
- Wehlau, W., 137, 239
- Weiss, W., 219, 234
- Wesselius, P., 301
- wind
- magnetic, 266
- Wolff, S. C., 173, 397
- x-rays
- from A and B stars, 393
  - from Vega, 417
- Yagola, A.
- inverse problems, 135