

Ajánlott irodalom

**Dr. Szatmári Sándor: Sugárzáselmélet és lézerek
című kurzusához:**

Hevesi Imre, Szatmári Sándor:
Bevezetés az atomfizikába (2002)

Pulse compression and group velocity dispersion:

E. B. Treacy:
Optical pulse compression with diffraction gratings.
IEEE J. Quantum Electronics, QE-5(9), 454-458 (1969)

O. E. Martinez, J. P. Gordon, R. L. Fork:
Negative group-velocity dispersion using refraction.
J. Opt. Soc. Am. A, 1(10), 1003-1006 (1984)

Zs. Bor, B. Rácz:
Group velocity dispersion in prisms and its application to pulse compression and travelling-wave excitation.
Opt. Commun. 54(3), 165 (1985)

S. Szatmári, G. Kühnle:
Pulse front and pulse duration distortion in refractive optics, and its compensation.
Opt. Commun. 69, 60-65 (1988)

Zs. Bor, Z. Gogolák, G. Szabó:
Femtosecond-resolution pulse-front distortion measurement by time-of-flight interferometry.
Opt. Lett. 14(16), 862-864 (1989)

P. Simon, H. Gerhardt, S. Szatmári:
Interferometric method for the characterization of the phase and pulse fronts of femtosecond pulses.
IEEE Opt. and Quant. Electronics 23, 73-79 (1991)

Pulse front distortion:

Zs. Bor, B. Rácz:
Group velocity dispersion in prisms and its application to pulse compression and travelling-wave excitation.
Opt. Commun. 54(3), 165 (1985)

S. Szatmári, G. Kühnle:
Pulse front and pulse duration distortion in refractive optics, and its compensation.
Opt. Commun. 69, 60-65 (1988)

Travelling wave excitation:

S. Szatmári, G. Kuhnle, P. Simon:

Pulse compression and travelling wave excitation scheme using a single dispersive element.
Appl. Opt. 29(36), 5372-5379 (1990)

S. Szatmári, P. Simon, H. Gerhardt:

Generation of 135 fs pulses of variable pulse front tilt by spatially-evolving chirped-pulse amplification at 248 nm.
Opt. Comm. 79(1, 2), 64-70 (1990)

T. Schmidt-Uhlig, S. Szatmári, G. Marowsky, P. Simon:

Generation of tunable sub-picosecond pulses in the UV with a travelling wave dye laser.
Appl. Phys. B 68, 61-66. (1999)

Laser pulse distortion in lenses:

Z. Bor:

Distortion of femtosecond laser pulses in lenses and lens systems.
J. Modern Opt. 35(12), 1907-1918 (1988)

Z. Bor:

Distortion of femtosecond laser pulses in lenses.
Opt. Lett. 14(2), 119-121 (1989)

Zs. Bor, Z. L. Horváth:

Distortion of femtosecond pulses in lenses.
Wave optical description.
Opt. Comm. 94, 249-258 (1992)

CPA:

P. Maine, D. Strickland, P. Bado, M. Pessot, G. Mourou:

Generation of ultrahigh peak power pulses by chirped pulse amplification
IEEE Journal of Quantum Electronics, Vol24, No.2, 398-399.

Overview:

S. Szatmári, G. Marowsky, P. Simon:

Femtosecond Excimer Lasers and their Applications.
Landolt-Börnstein New Series VIII/1B1 pé.215-253 (2007)

Active spatial filtering:

H. Kapteyn, M. Murnane, A. Szoke, R. Falcone:

Prepulse energy suppression for high-energy ultrashort pulses using self-induced plasma shuttering

Opt. Lett. Volume:16 Issue:7 p.490-492 (1991)

S. Szatmári, Z. Bakonyi, P. Simon:

Active spatial filtering of laser beams

Opt. Comm. 134 199-204 (1997)

I.B. Földes, D.Csáti, F.L. Szűcs, S. Szatmári:

Plasma mirror and temperature evolution for short pulse KrF lasers

Radiation Effects & Defects in Solids:Incorporating Plasma Science &Plasma Technology, Vol.165, Nos 6-10, June-October 2010. 429-433, I.F.: 0,55