1. Relativity


(a) *Inertial systems*, problem **12.1**, page 482.
(b) *Relativistic pursuit of outlaws*, problem **12.4**, page 483.
(c) *Time dilation*, problem **12.8**, page 489.
(d) *Lorentz contraction*, problem **12.9**, page 493.
(e) *Lorentz transformation*, problem **12.12**, page 498.
(f) *Relativistic transformation of a plane wave*, problem **12.47**, page 534.

2. Transmission lines


(a) *Rigid coaxial air line*, problem **7.2**, page 247; use $\mu_c \approx \mu_0$, $\sigma_c = 5.8 \cdot 10^7$ S/m.
(b) *Solutions of the telegraphers equation*, problem **7.3**, page 251.
(c) *Lossless transmission line*, problems **7.5**, **7.6**, page 252.
(d) *Termination of transmission lines*, problems **7.7**, **7.8**, page 255.
(e) *Standing waves*, problems **7.9**, **7.10**, page 259.

*Hand in your solutions until Wednesday, October 23, 08:45. Good luck!*