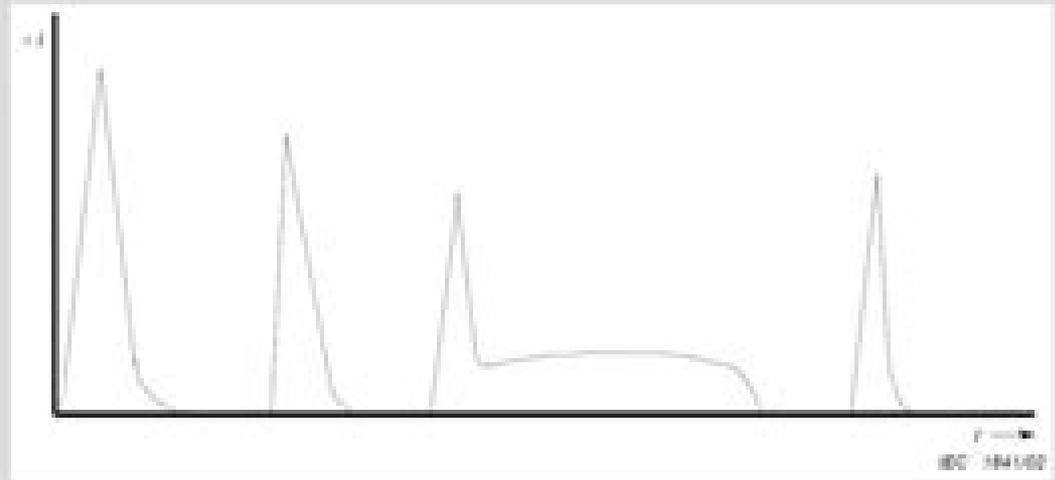
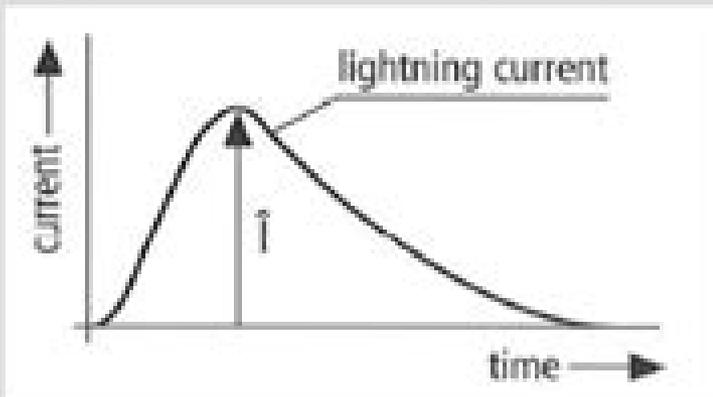


# Lightning physics

Typical waveform:  $10\mu\text{s}/350\mu\text{s}$



Peak current:

**$I$  in [kA]** - up to 300 kA

Steepness of current impulse:

**$di/dt$  in [kA/ $\mu\text{s}$ ]** - up to 160 kA/ $\mu\text{s}$

Charge transferred:

**$Q$  in [C]** - up to 600 C

Specific energy:

**$W/R$  in [MJ/ $\Omega$ ]** - up to 20 MJ/ $\Omega$

# Lightning Physics And Effects

**Brendan G. Carr**



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