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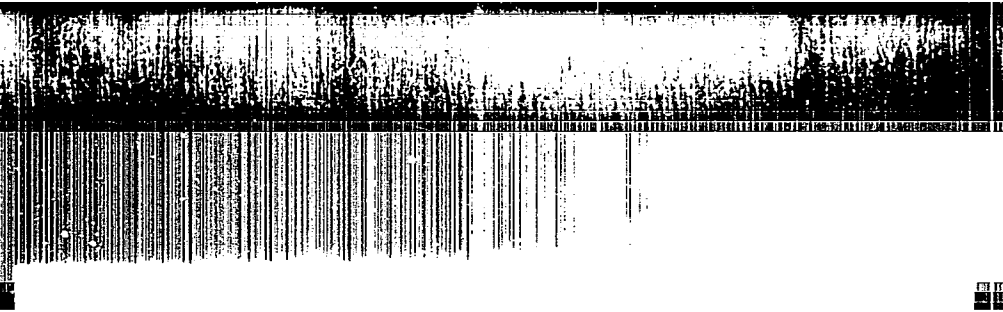
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DESCRIPTORS: *Beams (Structural), *Mounting
brackets, Load distribution, Loading (Mechanics),
*reinforced concrete, Stresses, Mathematical analysis

616

Brackets, short cantilever beams under a concentrated
load at the top edge, and restrained beams up to a = h
(as, for example, foundations and pilings) should be
reinforced using truss analogy. The required cross-
section at the point of restraint or at the center of the
beam $F_{eZ} = \frac{P \cdot a}{z}$ is continued to the support or under
(Engineering: Civil, TT, v. 10, no. 12) (over)

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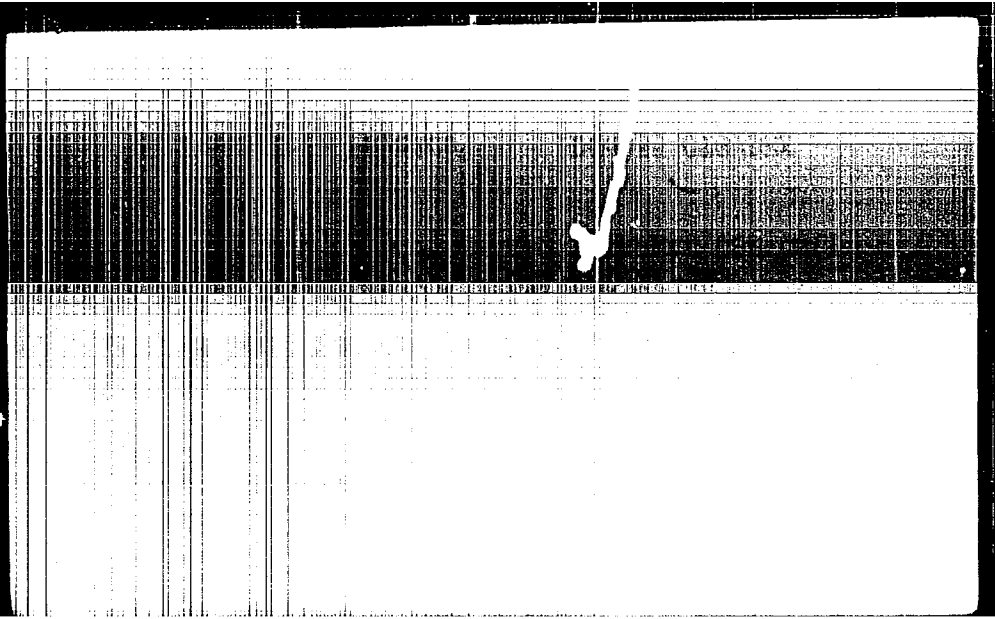
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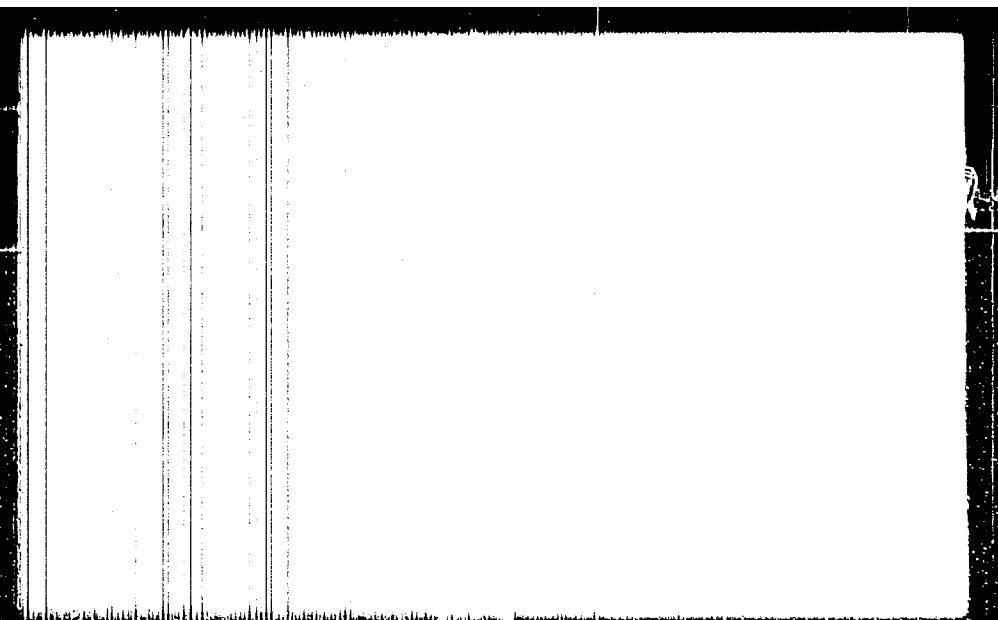
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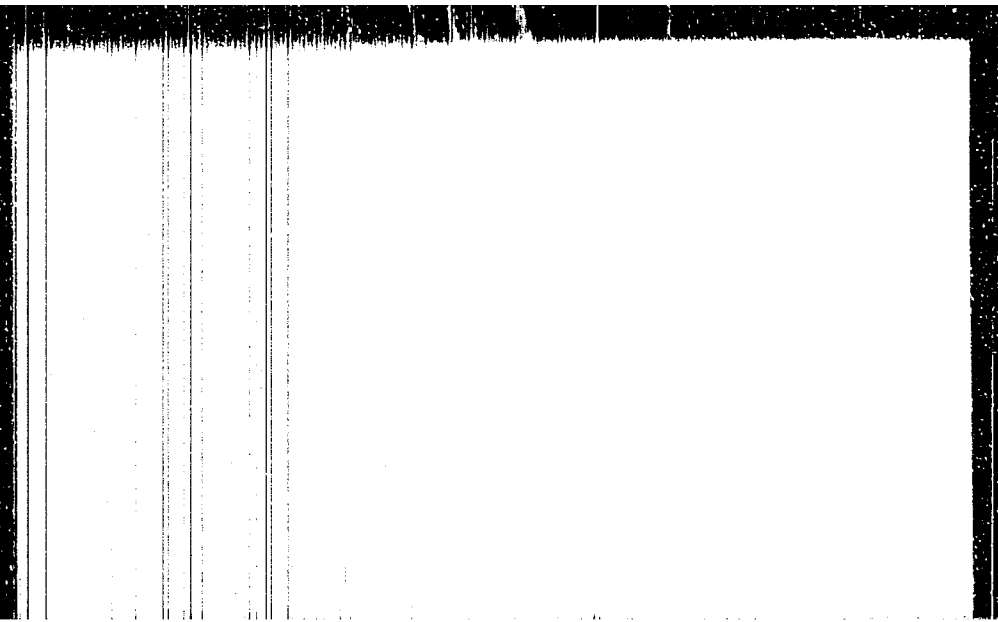
conduction electron is assumed to be quasi free (energy varying parabolically with wave number). The energy needed for impact ionization is somewhat larger than the optical band gap. When this energy is surpassed the ionization rate increases with the second or third power of the surplus energy (power depending on band structure). (Author)

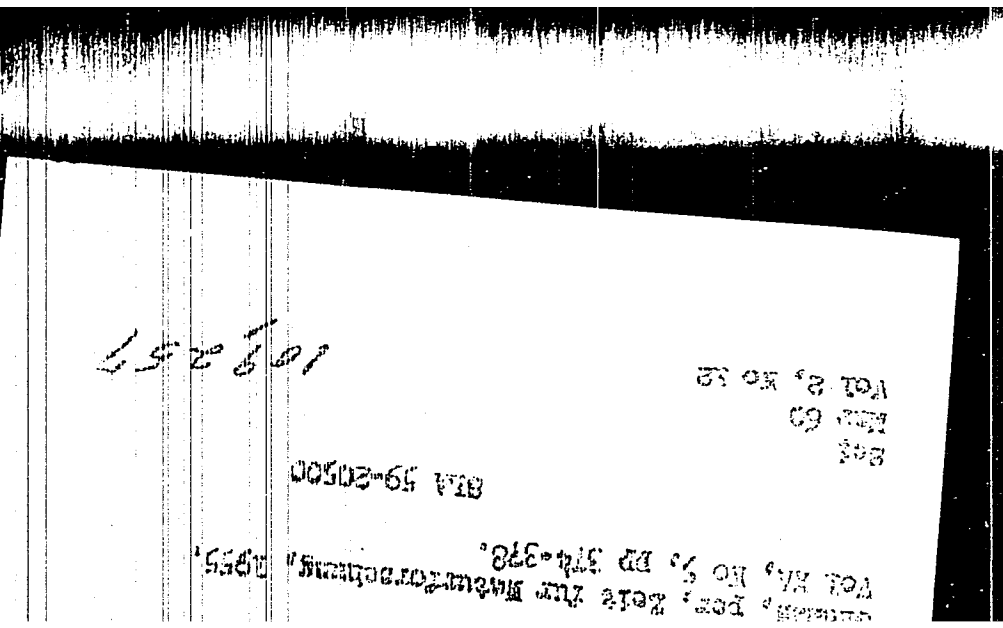
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DESCRIPITORS: • Electric fields, • Optics, • Absorption,
 Absorption spectra, • Electrons, Penetration, Frequency
 modulation, Modulation, Frequency, • Crystals.

In an electric field on the order of magnitude of 10^5 to
 10^6 v/cm, one may expect a change in the absorption
 edge which consists of a broadening of the base of the
 edge at the expense of higher frequencies. One can
 understand this effect, either as the penetration of elec-
 trons into the forbidden band (the step preceding the in-
 ternal field emission), or as a frequency modulation
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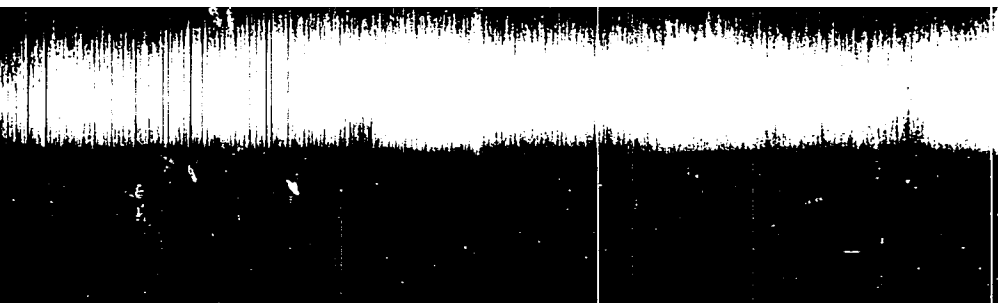
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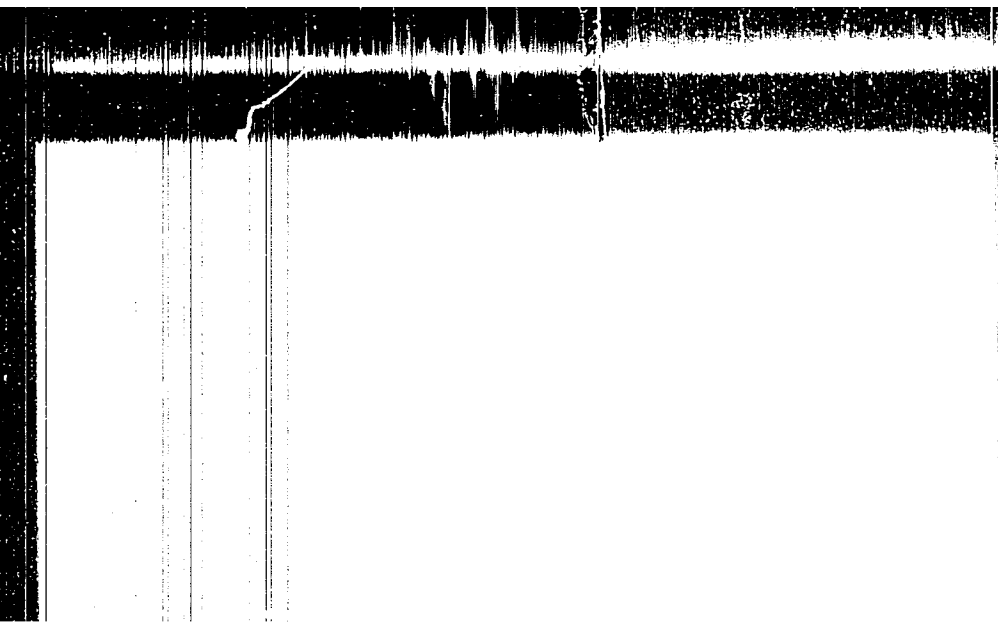
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