IEEE conference record of 1980 fourteenth Pulse Power Modulator Symposium

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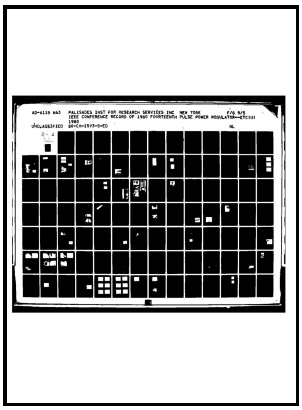

Description: -
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World War, 1939-1945 -- Monuments -- Germany -- Hirzenhain.
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Marx generator

They then behave like closed switches, so that the capacitors C discharge in series, via the flat line, into the load 9. The generator according to claim 4, wherein the continuous strip is flat and the subdivided strip is in a shape of a staircase. A 3-stage Marx generator according to the preceding description was built, using 0.

Design and simulation of a 3 MV compact generator for radiographic applications

The three capacitors C are electrically connected in series by one of the strips of a flat line formed by two parallel strips 3, 4 running in the same longitudinal direction Y. At some point, the spark gaps stop conducting, and the low-voltage supply begins charging the capacitors again. Two generators of opposite polarity, one on each electrode, are first fired to charge the Pockels cell into one polarity.

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The charge available is limited to the charge on the capacitors, so the output is a brief pulse as the capacitors discharge through the load. However, it is usually intentionally triggered once all the capacitors in the Marx bank have reached full charge, either by reducing the gap distance, by pulsing an additional trigger electrode such as a , by ionising the air in the gap using a pulsed , or by reducing the air pressure within the gap. A spark gap E behaves like a switch connected between the sections 7 and 8.

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This voltage is high enough that a charge carrier in this region can create more carriers by impact ionisation, but the probability is too low to form a proper avalanche; instead a somewhat noisy leakage current flows.

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