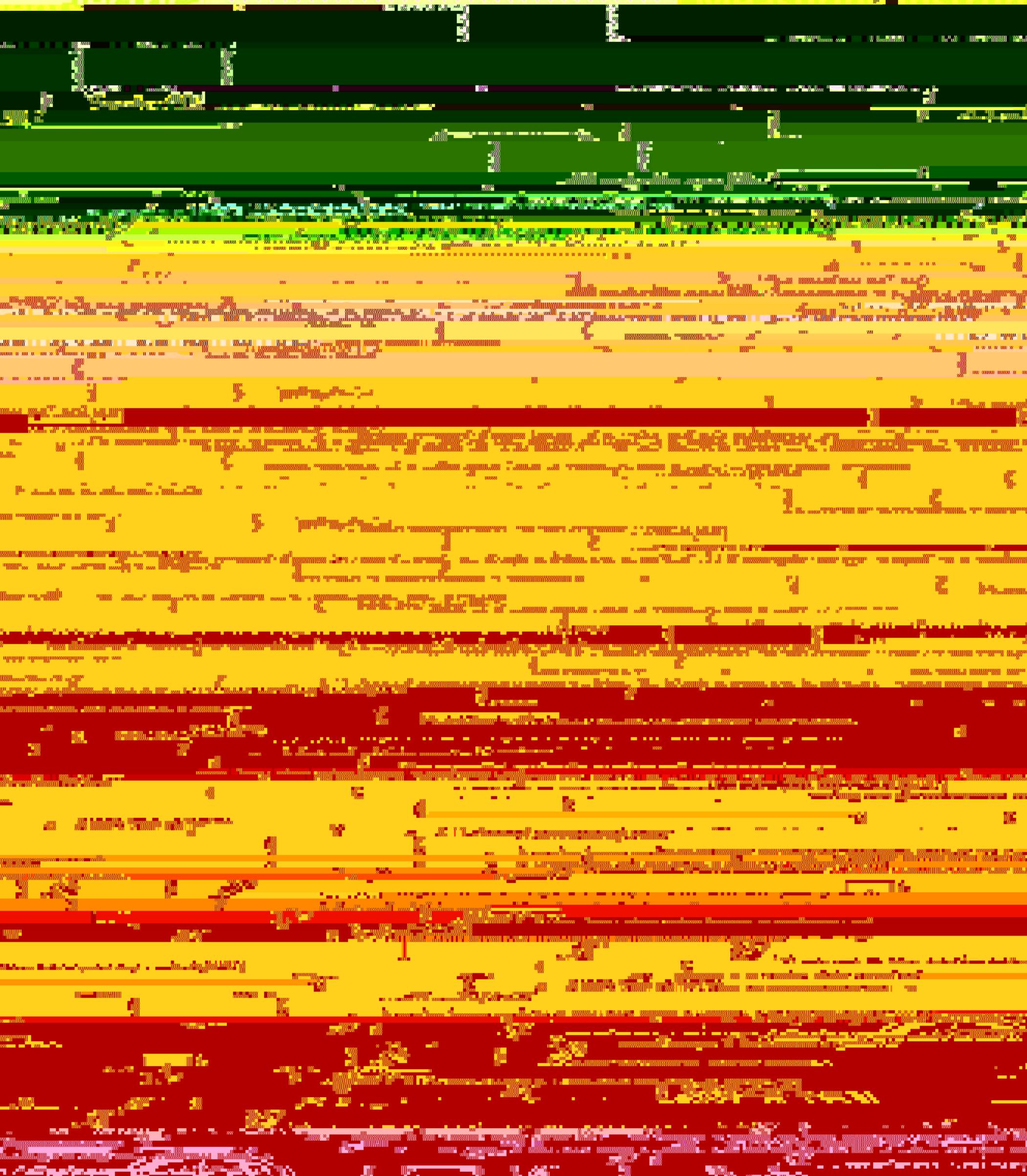
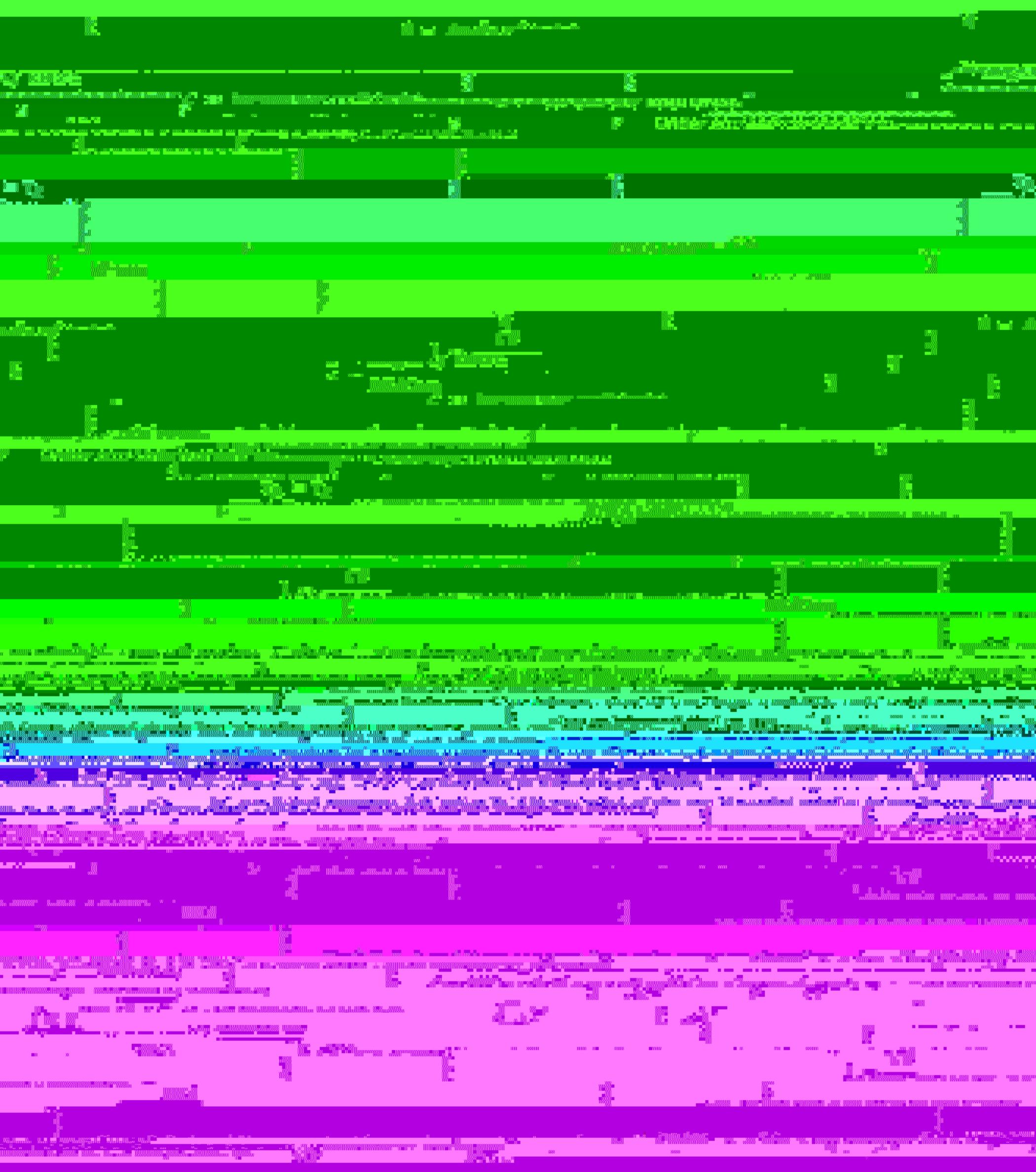
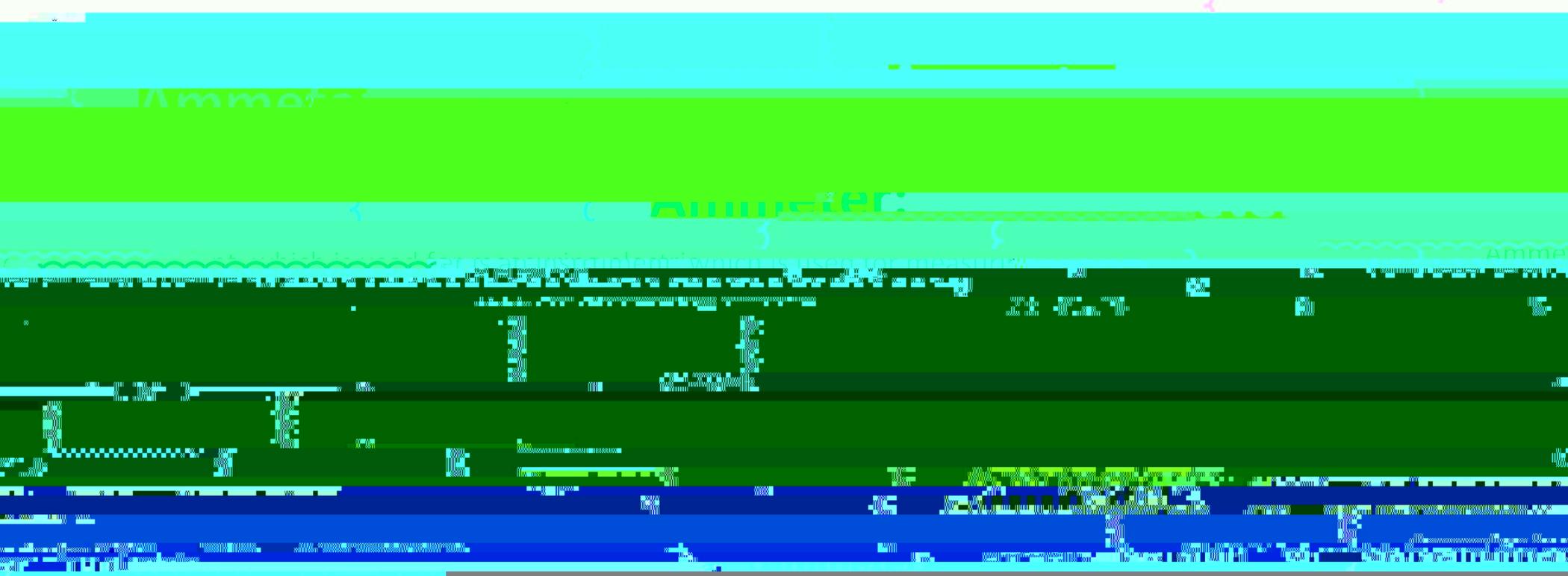


Phantom

Impedance







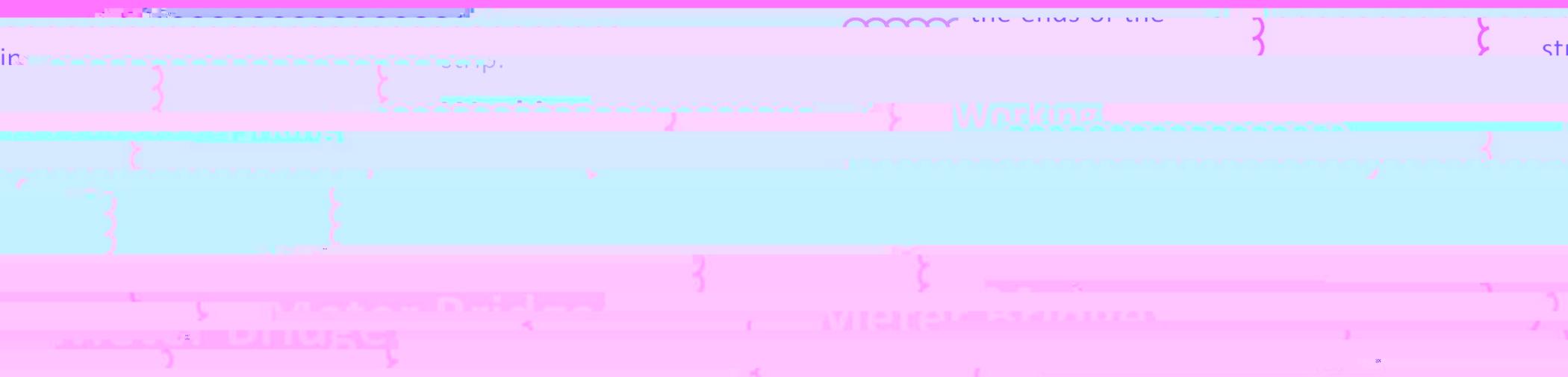


Let $V_B =$ potential of point B } potential of point D }
Then } Therefore,
$$V_{AB} = V_{AD}$$

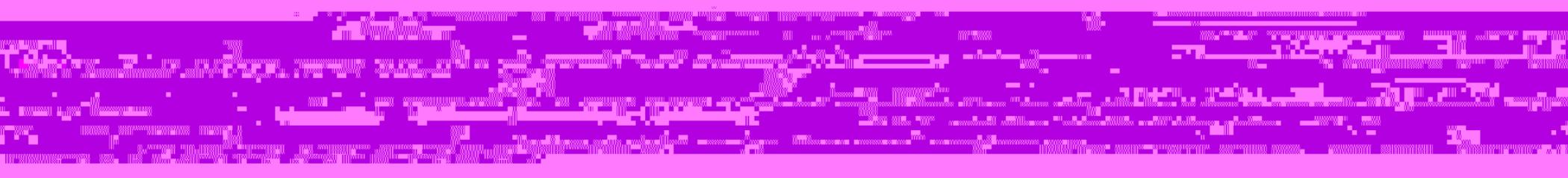
But $V = IR$ }



resistance R_x is connected to the ends of the wire.



meter are used in a Wheatstone bridge. The meter bridge also called a wire - wire bridge is an instrument based on the principle of a Wheatstone bridge.

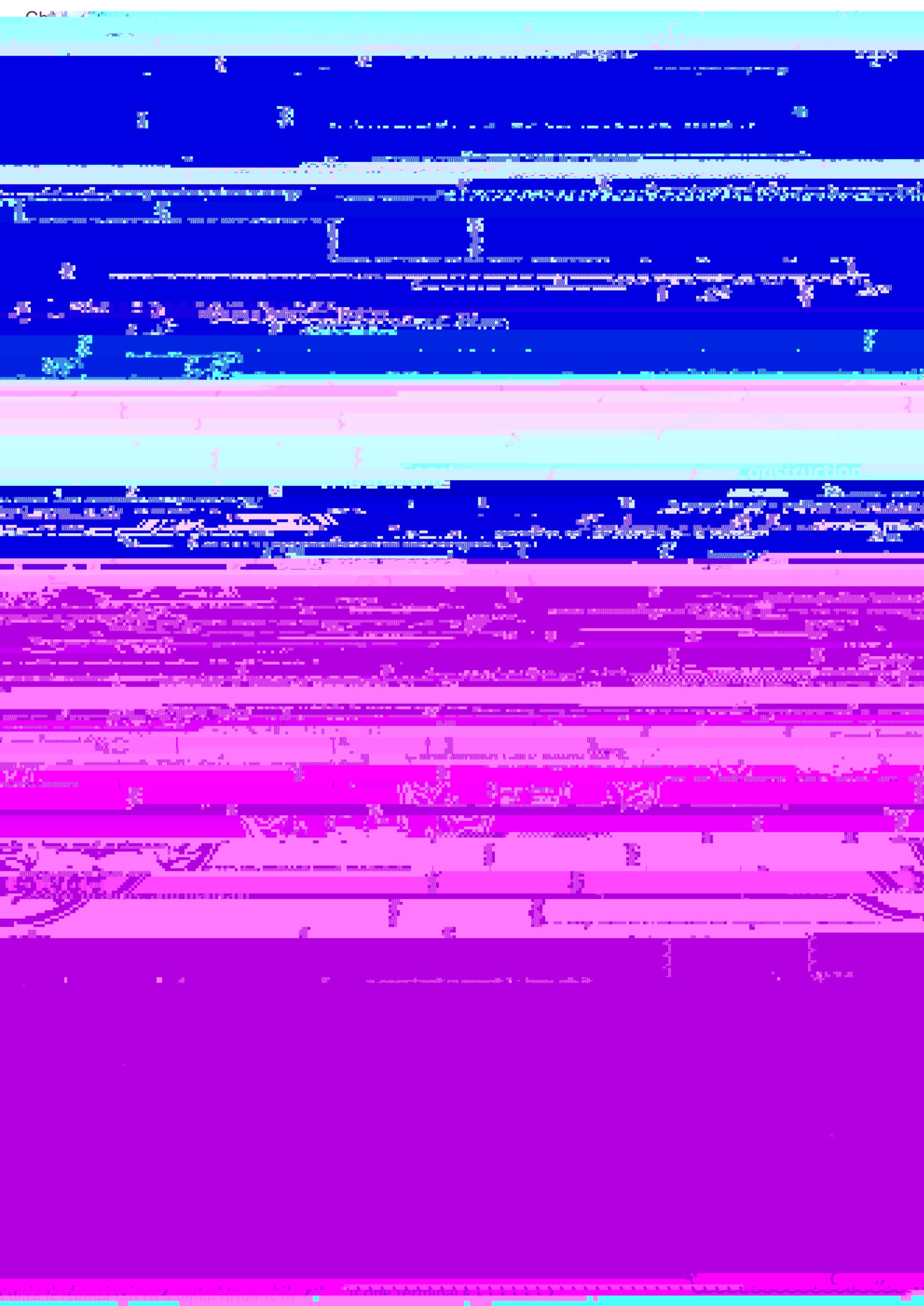


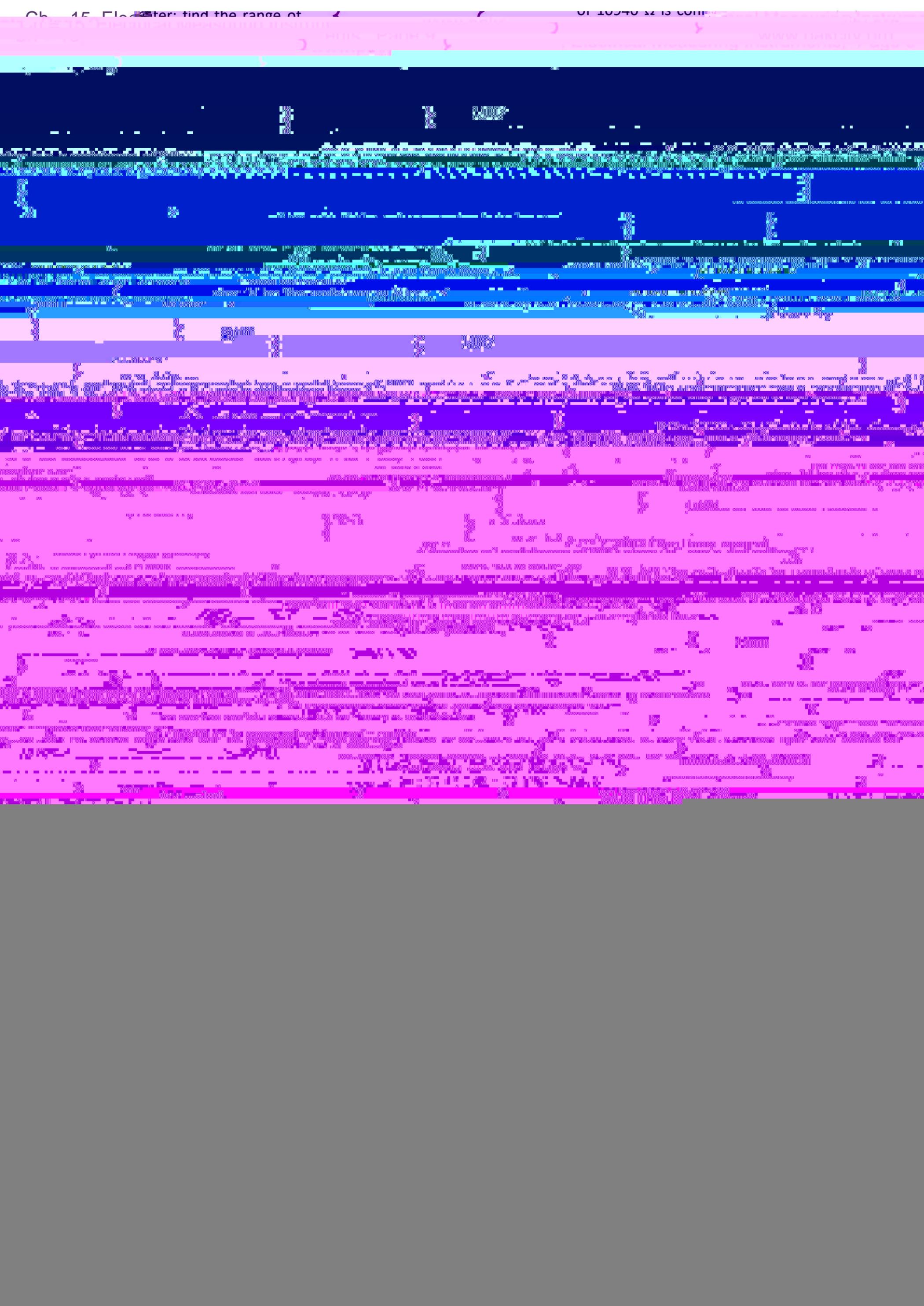
When the bridge is balanced, the galvanometer shows zero deflection. If the length of the wire towards R_1 is l_1 cm and towards R_2 is l_2 cm, then their resistances are $\propto l_1$ and $\propto l_2$ respectively. In a balanced bridge, the ratio of the resistances is equal to the ratio of the lengths of the wire.



Figure 15.1: A circuit with three resistors in parallel, connected to a series combination of two resistors.

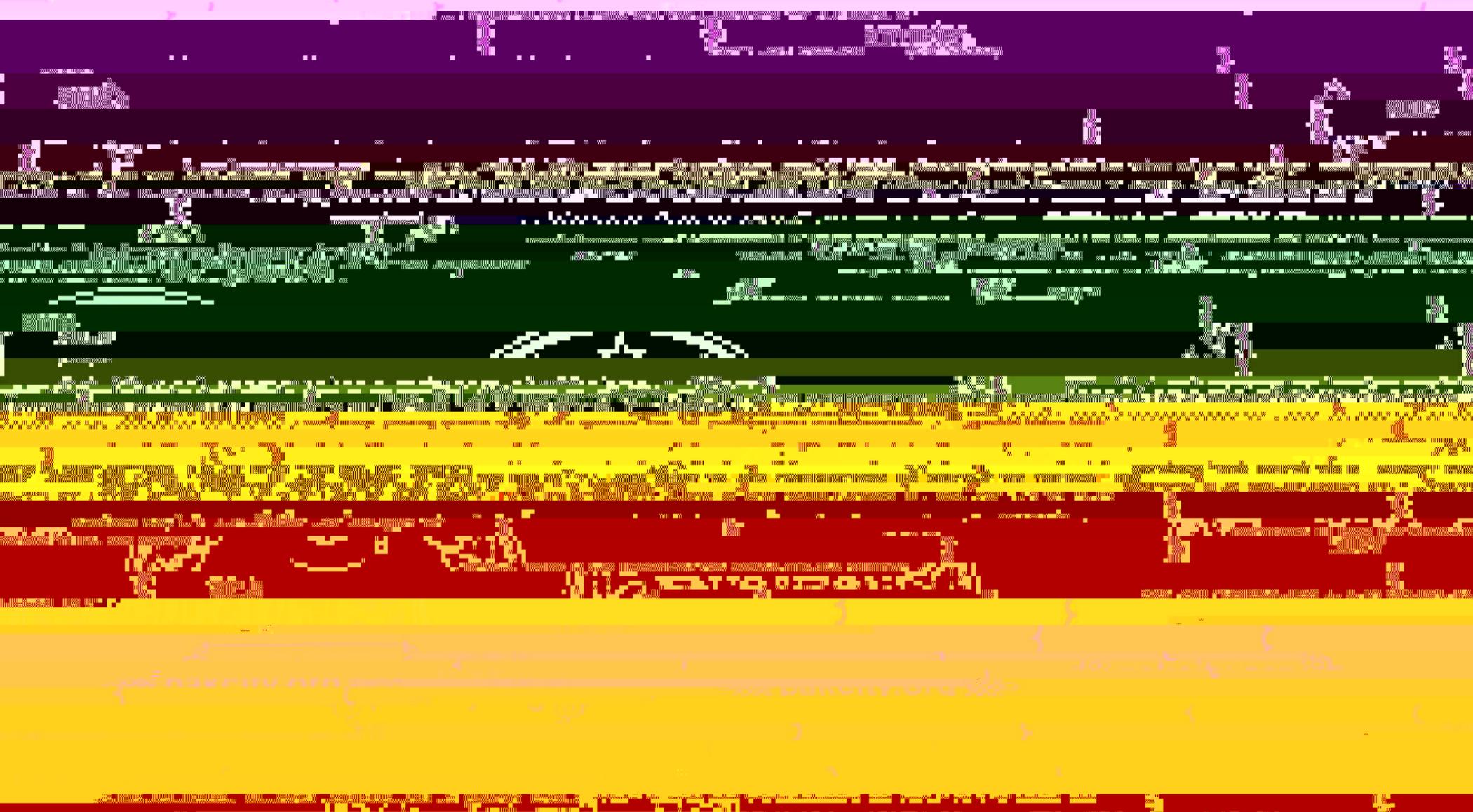
Figure 15.2: A circuit with three resistances each $\frac{1}{2} \Omega$, 1Ω , and 1Ω .





... across its terminals. It

... with a voltage of 2.5 volts and ... A. A ... An ammeter ... gives full scale deflection with a current of ... A. A ... A galvanometer of resistance of 50 ohms ... gives full scale deflection with a current of ... A.



... age: (24950 12) ... 2012

... shift of 0.115 nm is conn...