

Photopyroelectric Microscopy of Biological Materials

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The use of photothermal microscopy to obtain superficial and in depth images by means of the interaction of a thermal wave with the analyzed material has become of great interest due to its applications in different areas of knowledge. In this paper, we report preliminary results of the photopyroelectric microscopy technique of obtaining superficial and in depth images of biological material and microcircuits. The experimental setup used, among other devices, a pyroelectric sensor and linear micro-positioners to obtain, at each point in the sample, a photothermal signal. Thus it was possible to obtain a superficial image of the sample, with its optical characteristics and an image below its surface, through its thermal characteristics.