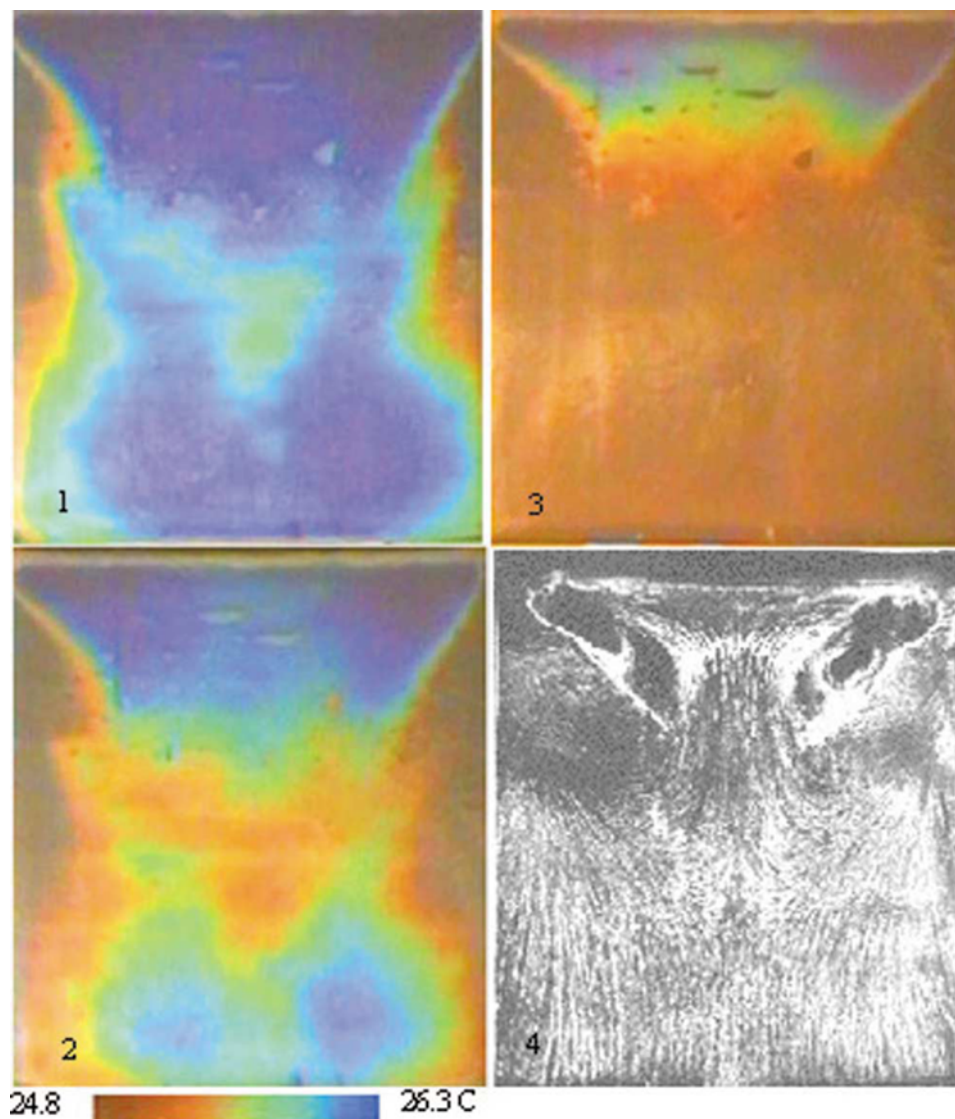


Flow Visualization on a Low Aspect Ratio Wing by Liquid Crystal Thermography

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Images (1-3) show a time variation of the surface temperature on lee side of the straight wing obtained by Liquid Crystal Thermography technique. The wing model with symmetric profile and aspect ratio 0.87 was made of wood. The heated model was exposed to the flow and pictures were recorded by a video system. For comparison image 4 shows a flow pattern (limiting streamlines) obtained by liquid film technique (titanium dioxide powder in kerosene).

Chord Reynolds number $Re_c = U_\infty c / \nu = 235\ 000$. Angle of attack $\alpha = 27^\circ$. Flow direction is from the top to the bottom.