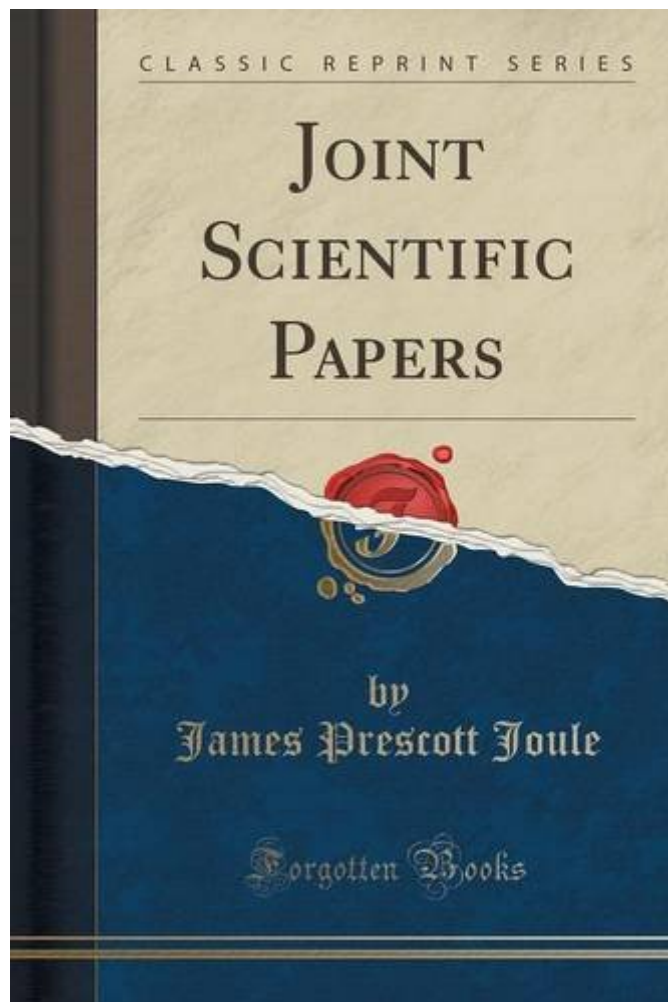


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On the Thermal Effects of Fluids in Motion. (Joint Papers with Sir Wm. Thomson.); Previous researches of the authors; Carnot's function; Description of apparatus; Anticipated effects of a rush of air from a single narrow orifice; Variations of temperature close to the orifice; Experiments to

show the heating effect; Mode of reducing the effluent air to a uniform condition; Table of Results of First Series of Experiments; Causes which interfered with the accuracy of the results; How obviated; Table of Results of Second Series of Experiments; of Third Series; Anomalous results explained in a later paper;

On the Thermal Effects of Elastic Fluids; An Abstract of the preceding paper;

On the Thermal Effects of Fluids in Motion; Continuation of experiments to account for variations of cooling effect; Apparatus employed; Mode of experimenting; Table of effect produced by shutting stopcock; Table of effect produced by opening stopcock; Causes of the fluctuations of temperature; Their influence on the issuing stream; Precautions to counteract their influence; Tables of results of experiments with plugs of cotton wool; Tables of results with plugs of silk; Table of results when the pressure was greater than atmospheric pressure; Cooling effect proportional to excess of pressure;

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