

Report on

**Bonding characteristics of strain gauges under different
installation procedures.**

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ABSTRACT

This report described the final year B.Eng. (Hons.) experimental research conducted to determine the quality of the bond of strain gauges when subjected to different installation procedures. There have been instances when strain gauges ceased to function at strains lower than expected. The gauges failed to register the readings after being dis-bonded off the surface of the specimen. This might have been contributed by the poor quality of the bonding of the gauges to the specimen. This experiment looked at various methods used for gauge installation, with a final accepted procedure being recommended at the end. This recommended installation procedure guarantees that the installed strain gauges would be able to function and register high strain readings up to 5% strain at normal temperature.

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