

CHAPTER VII

CONCLUSION AND SCOPE OF FURTHER WORK

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The present investigation is a report of our experiments and validation of different computerised techniques associated with non-linear Regression Analysis applicable to elastic deformation analysis of dielectric and piezoelectric materials under the influence of electrical and mechanical fields.

The analysis was carried out without incorporating the elevated temperature applied to the material from outside i.e. the influence of thermal fields are not incorporated in the analysis.

Recently, due to advent of different types of micro-processor Chips, it is possible to simulate the non-linear differential equations quite accurately by the suitable design of the system and choice of proper chips. This will be itself an independent work and hence cannot be tested within the framework of our experiment and validation.

The experiment and validation of the entire work has been compared and tested with the well-known authenticated results and works of leading scientists of the field.

The error which was collaborated for deviation of the existing method was very much insignificant which

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concludes inevitably the accuracy and efficiency of the methods developed and the efficiency of the developed Software, too.