

## **Professor Stanislaw Migorski**

*Lecture I: Hemivariational Inequalities: Stationary Problems*

*Lecture II: Hemivariational Inequalities: Evolutionary Problems*

The purpose of the talks is to give an elementary introduction to hemivariational inequalities. We discuss examples of nonmonotone multivalued boundary contact conditions which are generated by the Clarke subdifferentials of nonconvex functions. Next, we show the relations between hemivariational inequalities and nonlinear inclusions of subdifferential type. Finally, we present models of selected contact problems between a deformable body and a foundation for which hemivariational inequalities serve as their variational formulations. We present results on static, quasistatic and dynamic hemivariational inequalities. The talks will provide an orientation for non-experts and possibly can widen knowledge of experts dealing often with only a rather specific topic or a model. We also try to keep the presentation as simple as possible making it accessible to a newcomer to this field.

