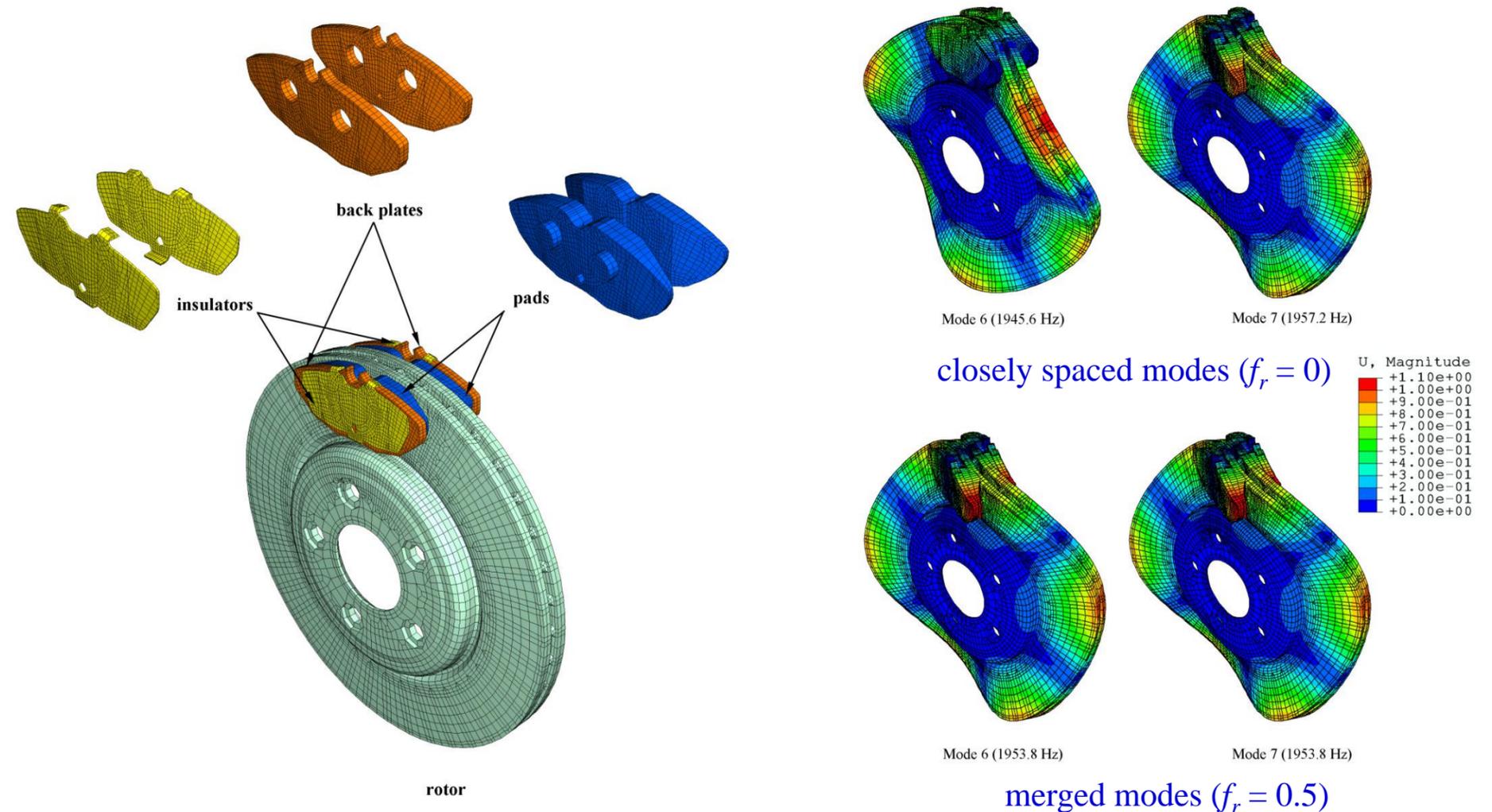


# Computational Stochastic Mechanics

Prof. Sharif Rahman

- Uncertainty quantification of high-dimensional complex systems
- Random eigenvalue problems in computational dynamics
- Reliability-based optimization of mechanical systems
- Stochastic computing in science and engineering



*New decomposition methods were developed for solving random eigenvalue problems, predicting the probability of dynamic instability of a disc brake system*