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that are useful for engineering classes. The lab sessions are used with one main goal: to allow students to become familiar with computer software (e.g., MATLAB) to solve application problems. We assume that the

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students have no prior
experience with MATLAB.

~~INTRODUCTION TO MATLAB FOR
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Matlab is the tool used by
Universities to understand
the engineering concepts and

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it is good at it. However the industries don't use Matlab and as a engineer you will forget the Matlab skills. Also Matlab is very expensive when it comes to commercial license.

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MATLAB EXERCISE (Available online at: <http://web.iitd.ac.in/~sbhalla/cel331.htm>)

1. Run MATLAB .
2. Set working directory as DESKTOP using path browser.
3. Create a matrix . A. by typing $A = [23, 45, 63]$ and another

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matrix B by B = [27, 05, -13].

4. Produce C = A+B. 5.

Multiply each element of C
by 5. 6.

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modeling and parametric uncertainty in civil engineering problems. For example, earthquake ground motion cannot be predetermined at the structural design stage. Complete wind pressure

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profiles are difficult to measure under operating conditions. Material properties can be difficult to determine to a very precise level - especially concrete, rock, and soil. For air quality prediction,

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it is difficult to measure the hourly/daily pollutants generated by cars and factories within the area of concern. It is also difficult to obtain the updated air quality information of the

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surrounding cities.
Furthermore, the meteorological conditions of the day for prediction are also uncertain. These are just some of the civil engineering examples to which Bayesian probabilistic

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to account for ground motion nonstationarities. Bridge vibrations caused by vehicle passage are explored, as is structural damage identification. Wavelet analytic techniques starting from single degree of

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freedom systems to multiple degree of freedom systems are set out and detailed solutions of more complicated problems involving soil and fluid interactions are presented. Separate chapters have been

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idealized as a linear multi-degree-of-freedom system in terms of wavelet coefficients Defines wavelet domain formulation of a nonlinear single-degree-of-freedom system Introduces the concept of probability

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importance of wavelets in terms of non-stationarities of ground motions, explores the application of wavelet analytic techniques, and is an excellent resource for users addressing wavelets for the first time.

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alone are unable to solve many complex problems engineering students and professionals confront. Introduction to MATLAB® Programming for Engineers and Scientists examines the basic elements of code

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