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PROGRAMMING FOR CIVIL AND BUILDING ENGINEERS USING MATLAB By Mervyn W Minett<sup>1</sup> and Chris Perera<sup>2</sup> ABSTRACT There has been some reluctance in Australia to extensively use programming platforms to support the education of Civil and Building Engineers. This is probably been due to a propensity to use turnkey packages.

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The goals of these notes are to introduce concepts of numerical methods and introduce Matlab in an Engineering framework. The notes were developed by the author in the process of teaching a course on applied numerical methods for Civil Engineering. (1724 views) Applications from Engineering with MATLAB Concepts by Jan Valdman (ed.) - InTech, 2016

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I like Matlab and I used to code on Matlab very often in my PhD study. In fact I picked up VBA after I join the industry. But to be frank, Matlab is quite pricey for a medium sized civil engineering design office.

## **Which programming languages can be useful for civil**

using MatLab applications with such problems is the ability to obtain accurate results rapidly and thus to perform parametric studies quickly enough to be useful in a design context. Three generic cases were analyzed: 1. Principal stresses determination for an underground mine. 2. Estimation of quantity of flow for an impervious dam. 3.

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