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2016 Image from Johannes Kepler's  
Astronomia nova, 1609, (ETH  
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famous equation that solves two-body  
orbital motion,  $M = E \sin E$ , where  $M$

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(the mean anomaly) and  $e$  (the eccentricity) are known, and one solves for  $E$  (the eccentric anomaly).

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*Numerical Analysis II - MathCity.org*  
“numerical analysis” title in a later edition [171]. The origins of the part of mathematics we now call analysis were all numerical, so for millennia the name “numerical analysis” would have been redundant. But analysis later developed conceptual (non-numerical) paradigms, and it became useful to specify the different areas by names.



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Chicago*

Lecture Notes on Numerical Analysis.

Peter J. Olver. Last Updated: May, 2008

*Numerical Analysis Lecture Notes*

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hours (K3) Sunday : 12:00pm – 1:00pm

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*Numerical analysis - Wikipedia*

These notes cover what is taught in the

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classes of Numerical Methods for Engineering in the School at Mieres. One should not expect more than that: a revision of what has been or will be explained during the course. For a more correct, deep and thorough explanation, one should go to the material referenced in the bibliography?

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common in numerical analysis to employ the subscript  $E$  to denote this norm and use

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the subscript 2 for the “spectral” norm of matrices. But we have chosen to defer to notation more consistent with pure mathematics.) Another useful norm that we often encounter in practice is the max norm or infinity norm defined as  $\|v\|_\infty = \max_{1 \leq i \leq N} |v_i|$ . (1.3)

## *LECTURES IN BASIC COMPUTATIONAL NUMERICAL ANALYSIS*

My Numerical Analysis notes from Lent 2014 are available in pdf and postscript form. Also available online are a number of MATLAB demonstrations illustrating the course; the notes of one of the previous lecturers, on which my notes are [heavily] based.

*Stephen J. Cowley: Teaching Resources  
Numerical Analysis Proceedings of the  
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