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Computing characteristic polynomial in floating-point arithmetic, we obtain det(A−λI) = λ2 −2λ+(1− 2) = λ2 −2λ+1 which has 1 as double root Thus, eigenvalues cannot be resolved by this method even though they are distinct in working precision Michael T Heath Scientific Computing 11 / 87

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Introduction to Scientific Computing

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CS-708: Scientific Computing (Spring 2020)

Michael T Heath, "Scientific Computing: An Introductory Survey (2nd Ed)", McGraw-Hill, 2002 Objectives: The main objective of this course is to prepare students for their future studies and careers with mathematical and computational skills in solving various types of scientific and engineering problems Many of the topics

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