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student solutions manual a modern introduction to differential equations

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this manual contains full solutions to selected exercises

the purpose of this companion volume to our text is to provide instructors and eventually students with some additional information to ease the learning process while further documenting the implementations of mathematica and ode in an ideal world this volume would not be necessary since we have systematically worked to make the text unambiguous and directly useful by providing in the text worked examples of every technique which is discussed at the theoretical level however in our teaching we have found that it is helpful to have further documentation of the various solution techniques introduced in the text the subject of differential equations is particularly well suited to self study since one can always verify by hand calculation whether or not a given proposed solution is a bona fide solution of the differential equation and initial conditions accordingly we have not reproduced the steps of the verification process in every case rather content with the illustration of some basic cases of verification in the text as we state there students are strongly encouraged to verify that the proposed solution indeed satisfies the requisite equation and supplementary conditions

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understanding the authors convey their enthusiasm for the study of odes throughout the textbook

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