

# Kamke differential equations solved in Maple and Mathematica

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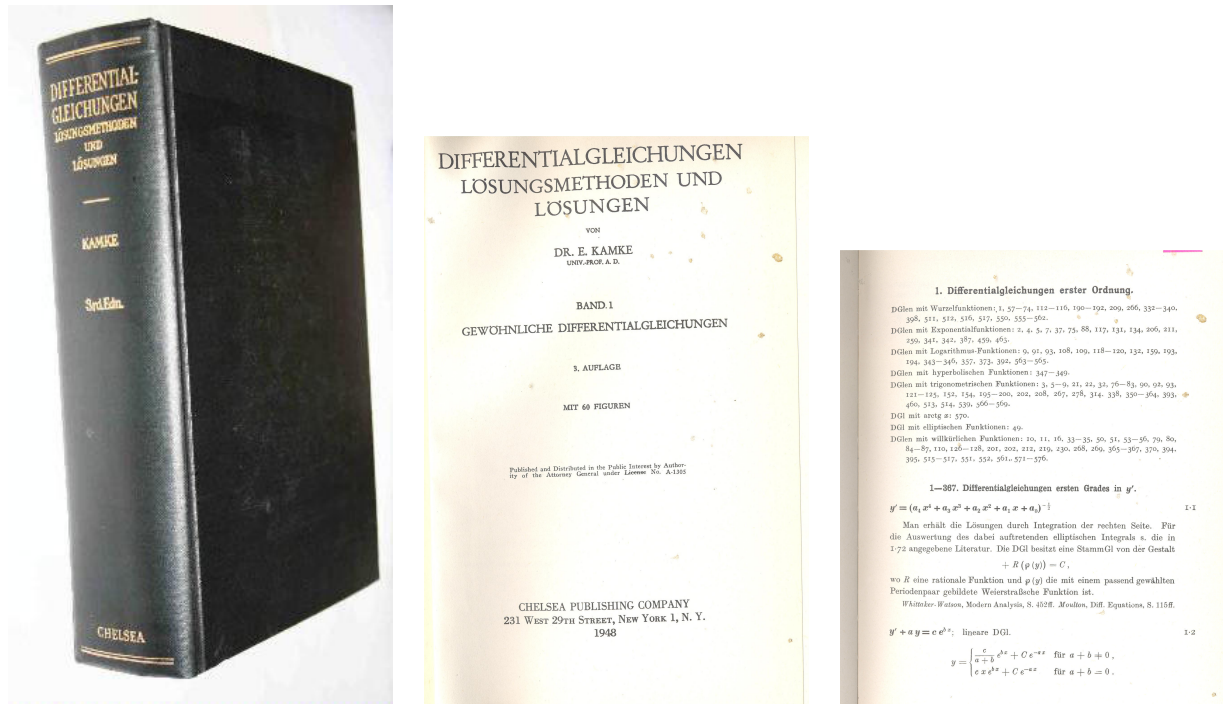
Compiled on April 27, 2024 at 10:02pm

**This page is no longer being updated.** Please see [this](#) for the current version where Kamke ode's are now hosted.

date completed	report	Maple score	Mathematica score	notes
April 27, 2024	HTML	2024 (88.56%)	14 (87.99%)	5 minutes per problem
August 12, 2021	HTML	2021.1 (88.66%)	12.3.1 (88.04%)	5 minutes per problem. Adjusted scoring for Maple. ODSESolStruc now counted as not solved.
May 20, 2021	HTML	2021 (91.86%)	12.3 (88.04%)	5 minutes per problem
April 28, 2020	HTML	2020 (91.96%)	12.1 (84.33%)	5 minutes per problem
April 20, 2019	HTML	2019 (92.11%)	12 (82.78%)	5 minutes per problem
April 16, 2018	HTML	2018.0 (92.01%)	11.3 (77.47%)	60 minutes per problem. Mathematica log file
2018.	HTML	2018 (91.96%)	11.3 (75.93%)	5 minutes.
Oct 27, 2017	HTML	2017.3 (91.96%)	11.2 (75.77%)	5 minutes.
2016	HTML	2016.1 (92.01%)	11 (74.48%)	5 minutes per problem.
Rebuild April 22, 2018	HTML	2016.1 (91.96%)	10.4 (77.22%)	5 minutes.
2016	HTML	2016.1 (91.96%)	10.4 (75.93%)	5 minutes.
2015	HTML	2015.2 (92.16%)	10.3.1 (75.98%)	5 minutes.
December 24, 2014.	HTML	18.01 (92.21%)	10.0 (79.74%)	The first 70 differential equations are also implemented in sage 6.2. No specific time out was used. This looks like the build script had some errors. I removed this from public web site. June 2014. Sage scored (56.52%)
2014	HTML	Maple 17	9.01	Not completed and kept for reference.

# Introduction

his report contain 1940 ODE's taken from the book "Differential Gleichungen" by Kamke, 3rd edition, solved using Maple and Mathematica.



## downloads

1. `mathematica_listing.txt` Current listing of Kamke differential equations in Mathematica syntax in plain text format.
2. `maple_listing.txt` Current listing of Kamke differential equations in Maple syntax in plain text format.
3. `sage_script.sage` Sage script used. Run as follows `sage sage_script.sage`