

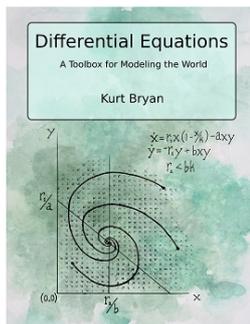
Volume VIII Number 3

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SIMIODE ONLINE DIGITAL TEXT

DIFFERENTIAL EQUATIONS: A TOOLBOX FOR MODELING THE WORLD



SIMIODE offers 20% discount in the price \$39.00 down to \$31.20 with last day of offer - 15 June 2022.

Get your copy of this digital text now and use the exciting approach with students at the next teaching opportunity as well as recommend it to colleagues who teach differential equations. Students purchase your copy for project ideas, challenging and exciting modeling applications, and motivation to study and apply differential equations. The exposition is clear, engaging, and rich. Enjoy and marvel at the fascinating applications of differential equations.

Complete information about text, reviews, supporting materials, and how to get your personal copy.

[Third party sales information](#) for resellers, bookstores, and purchasers.

[Table of Contents and Chapter 1](#) to preview our commitment to a modeling first and throughout approach.

Hundreds of colleagues have purchased this text and a good number are using it in their teaching.

The author, Dr. Kurt Bryan, Rose-Hulman Institute of Technology, Terre Haute IN USA, takes a modeling first and throughout approach to motivate the study and learning of differential equations in the spirit of SIMIODE, while linking to many SIMIODE Modeling Scenarios and other original activities.

Dr. Glenn Ledder, University of Nebraska, Lincoln NE USA, says in his review in *The UMAP Journal*, "This book is the **only one this reviewer is aware of that presents differential equations in a modeling context** rather than merely adding a bit of modeling to the standard presentation. **If you want to study the mathematics of differential equations in a modeling context, you are in the right place.**"

The text offers some 600 pages of rich modeling motivated materials with support groups in SIMIODE for Students and Teachers and some 400 additional pages of materials (solutions, hints, project ideas, data, computer code, forums, collaborative project space, etc.) to help teacher and student at [SIMIODE Textbook - Teacher Group](#) or [SIMIODE Textbook - Student Group](#).

Purchase this textbook, use SIMIODE resources, join SIMIODE, enjoy the read, and adopt the text for your course on behalf of your students.

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SIMIODE MIGRATES TO QUBES

SIMIODE is moving its HUBZero platform and community to QUBES. QUBES is a BioQuest Project community of organizations and groups to help accelerate positive change in STEM education. SIMIODE is proud to be a member organization of that community. While we are still moving in we do have complete information already posted on our [SIMIODE EXPO Conference - Fall 2022](#), [SIMIODE Textbook - right now](#), and [SIMIODE SCUDEM event - Winter 2023](#).

One of the exceptional features in QUBES is a wonderful tag ontology to permit sophisticated search of SIMIODE publications and resources. Come search for rich ideas and bring students and colleagues. Browse, download, and customize SIMIODE OER materials. We have over 270 Modeling Scenarios in many areas of application for your use, download, and customizable! We will be adding features throughout the summer and inviting our current SIMIODE members to join us in registering for SIMIODE at QUBES. Look for the invitation soon, but come and visit early!

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PRISON MATHEMATICS PROJECT

At the SIMIODE EXPO 2022 Conference there was an exceptional [Keynote talk](#) about the Prison Mathematics Project (PMP) which works towards a new understanding of the role of mathematics in self-identity and desistance among a demographic of prisoners who are actively exploring a higher education. The aim is to achieve positive changes in self-identity and desistance by providing knowledge, instilling a sense of community and culture, and establishing network connections to promote self-rehabilitation among participants through engagement of mathematics. Such engagement is nurtured through active mentorship by members of the mathematical community. See the current issue of the [Prison Math Newsletter](#) 3.

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SIMIODE SOURCES FOR YOUR OWN MODELING SCENARIOS

SIMIODE offers [potential modeling scenario ideas](#). There are now over 450 of these! These are materials, thoughts, pointers, summaries, articles, etc. to encourage and support your modeling scenario ideas. You must be registered and signed in to view these resources. Consider these ideas and use them to design your own modeling scenarios for your students and then publish this material in SIMIODE.

Of course, you can publish your own source materials, perhaps ideas you have not been able to get to, but want to or wish to engage with others in producing a Modeling Scenario. Just upload them for all to see. For registered members of SIMIODE just use the "Start a new Potential Scenario Idea" button and contribute.

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PUBLISH YOUR CLASS EFFORTS IN SIMIODE

If you are teaching differential equations you have probably written and assigned projects. Consider publishing your materials online in SIMIODE using our peer reviewed, double blind referee system.

SIMIODE maintains a double-blind, peer-review process for quality online publication of Modeling Scenarios and Technique Narratives. However, we encourage authors to submit their ideas at any stage of development and/or class projects for immediate feedback of a less formal nature. We will render constructive support and encouragement as well as technical feedback. In the past the SIMIODE Director, Brian Winkel, as Founding Editor of the journal *PRIMUS*, found this to be a very good way to foster confidence, help prospective authors contribute to the broader community, and get their ideas published. Please drop us a note with your ideas and/or materials to Director@simiode.org. We will respond quickly!

You can see how to submit your materials [here](#). What you do is important to your students, but it is also worthy of sharing with colleagues and their students. Step up and write up your projects for SIMIODE and your colleagues. You will have an online refereed publication at SIMIODE. You will be pleased to know others are using your ideas, building on your success, and enjoying what you share with your students.

One purpose of SIMIODE is to offer colleagues solid, refereed teaching material on which they can base a modeling first course in differential equations. Thus, publishing your ideas and activities for students is a main objective of SIMIODE. However, it is reasonable to ask yourself, "Why should I prepare, submit, and publish in SIMIODE?" We give you many [good reasons to publish in SIMIODE](#). Check them out and see that many fit you. Then join us by sending us your efforts.

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WORDS FROM THE DIRECTOR

SIMIODE is a [community](#) which is alive, vibrant, and rich in resources and individual talents to assist colleagues who wish to teach differential equations using modeling to motivate students. There are a number of ways you can add to the community:

Contribute materials. You can learn more about this at our [Author Information](#) section and get even more details once you have signed into SIMIODE. There you will find types of materials and instructions on how to contribute and begin the process leading to publication in SIMIODE. Register to referee and review submitted materials. Good scholarship merits attention and our double-blind, peer-referee system affords quality reviews of submitted materials.

Post slides from your presentations, classes, or talks. When you give a talk you can post your slides, details of the talk or meeting, and comments at [Resources: Presentations](#). Now that you have spread the word beyond the SIMIODE community bring it back home for SIMIODE members to see. As always please let us hear from you with your concerns, your news, and your activities. Contact us at Director@SIMIODE.org.

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