

MathWorks Campus Lizenz

Information für Lehrende

Jeder auf dem Campus hat Zugriff auf alle MATLAB-Tools!



Anytime, Anywhere & Any Device



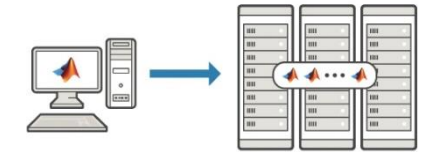
Network Licenses for Multiple Locations



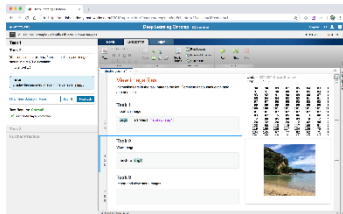
MATLAB Grader



MATLAB Online



MATLAB Parallel Server



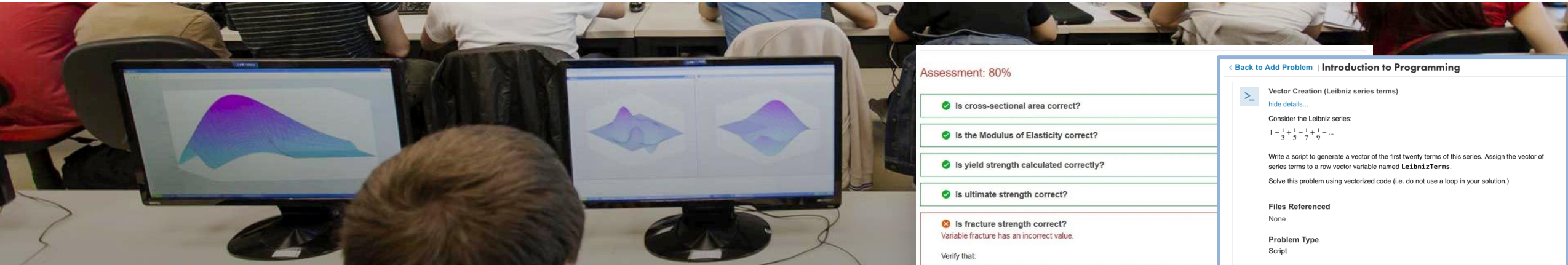
Online Training

- ✓ Zugang über das MathWorks [Portal](#) und ihrer @fau.de / @uk-erlangen.de E-Mail
- Zugang für alle Angehörigen der Universität
- ✓ Zugang anywhere, any time, on- & off-network auf allen Rechnern
- ✓ Einfrierung der bestehenden Lizenzen
- ✓ Zugang zu [allen*](#) MathWorks Tools

Einstiegshilfe zur Campuslizenz, Individual Lizenz, Portal:



Campusweiter Zugriff auf MATLAB Grader für Lehrende



Assessment: 80%

- Is cross-sectional area correct?
- Is the Modulus of Elasticity correct?
- Is yield strength calculated correctly?
- Is ultimate strength correct?
- Is fracture strength correct?
Variable fracture has an incorrect value.

Verify that:

- strain data starts at 0 mm/mm, and stress starts at 0 Pa. Correct the raw
- fracture is assigned a stress value with units of Pa

[Back to Add Problem](#) | Introduction to Programming

> Vector Creation (Leibniz series terms)
[hide details...](#)

Consider the Leibniz series:

$$1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \dots$$

Write a script to generate a vector of the first twenty terms of this series. Assign the vector of series terms to a row vector variable named **LeibnizTerms**.

Solve this problem using vectorized code (i.e. do not use a loop in your solution.)

Files Referenced
None

Problem Type
Script

Code

[Reference Solution](#) [Learner Template](#)

```
1 k = 0:19;
2 LeibnizTerms = (-1).^k ./ (2 * k + 1);
```



Erstellung interaktiver Kurs- und Prüfungsaufgaben



Automatische Auswertung von Aufgaben



Ausführung in jeder Lernumgebung



Ressourcen zur Nutzung des MATLAB Grader

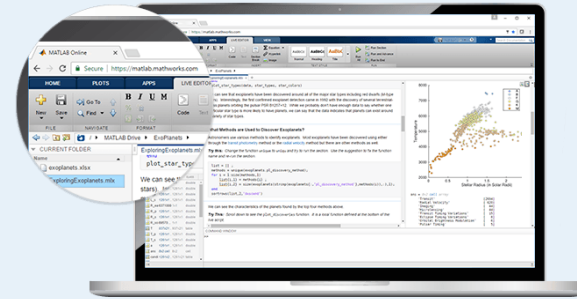
- [Übersicht zum MATLAB Grader](#) (13min. Video)
- [Webinar LMS Integration and Autograded Assessments](#) (60 min Video)
- [Teaching mit MATLAB](#) Online Kurs (hand-on & self-paced)
- [MATLAB Grader](#) Documentations
- [Problem Collections](#) (Aufgabensammlungen)

Zugriffsoptionen für Individualnutzer



MATLAB for Desktops

Zugriff auf MATLAB auf universitären und persönlichen Rechnern und Laptops



MATLAB & Simulink Online

Zugriff auf MATLAB über den Web browser



MATLAB Mobile

Zugriff auf MATLAB vom iOS/Android-Gerät aus

[MATLAB portal](#)

matlab.mathworks.com
[Limitations](#)



Campusweiter Zugriff auf Online Training

Getting Started

<p>MATLAB Onramp FREE</p> <p>Get started quickly with the basics of MATLAB.</p> <p>Launch Details</p>	<p>Simulink Onramp FREE</p> <p>Get started quickly with the basics of Simulink.</p> <p>Details and launch</p>	<p>Machine Learning Onramp FREE</p> <p>Learn the basics of practical machine learning methods for classification problems.</p> <p>Launch Details</p>	<p>Deep Learning Onramp FREE</p> <p>Get started quickly using deep learning methods to perform image recognition.</p> <p>Launch Details</p>	<p>Stateflow Onramp FREE</p> <p>Learn the basics of creating, editing, and simulating state machines in Stateflow.</p> <p>Details and launch</p>
<p>Reinforcement Learning Onramp NEW FREE</p> <p>Master the basics of creating intelligent controllers that learn from experience.</p> <p>Launch Details</p>	<p>Image Processing Onramp NEW FREE</p> <p>Learn the basics of practical image processing techniques in MATLAB.</p> <p>Launch Details</p>	<p>Signal Processing Onramp NEW FREE</p> <p>An interactive introduction to signal processing methods for spectral analysis.</p> <p>Launch Details</p>	<p>Simscape Onramp NEW FREE</p> <p>Learn the basics of simulating physical systems in Simscape.</p> <p>Details and launch</p>	<p>Control Design Onramp with Simulink NEW FREE</p> <p>Get started quickly with the basics of feedback control design in Simulink.</p> <p>Details and launch</p>

Data Science

<p>Machine Learning with MATLAB</p> <p>Explore data and build predictive models.</p> <p>Launch Details</p>	<p>Deep Learning with MATLAB</p> <p>Learn the theory and practice of building deep neural networks with real-life image and sequence data.</p> <p>Launch Details</p>
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Core MATLAB

<p>MATLAB Fundamentals</p> <p>Learn core MATLAB functionality for data analysis, modeling, and programming.</p> <p>Launch Details</p>	<p>MATLAB for Data Processing and Visualization</p> <p>Create custom visualizations and automate your data analysis tasks.</p> <p>Launch Details</p>	<p>MATLAB Programming Techniques</p> <p>Improve the robustness, flexibility, and efficiency of your MATLAB code.</p> <p>Launch Details</p>
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MathWorks | Training Services

Course Completion Certificate

John Smith

has successfully completed **100%** of the self-paced training course

Machine Learning Onramp

Ray A. Santos
DIRECTOR, TRAINING SERVICES

25 April 2020

Über 80 Stunden
Aufbaumaterial zu MATLAB

matlabacademy.mathworks.com

Zusätzliche Bestandteile der Campuslizenz.

Bei Interesse melden Sie sich bitte bei den Lizenz Administratoren

RoadRunner: ein interaktiver Editor, mit dem Sie 3D-Szenen für die Simulation und das Testen automatisierter Fahrsysteme entwerfen können.

Polyspace: weist die Abwesenheit von kritischen Laufzeitfehlern in Ihrem eingebetteten C/C++ -Code anhand formaler Methoden nach.

MATLAB Parallel Server: Rechenintensive MATLAB-Programme und Simulink-Modelle in einem Cluster oder als Batch-Jobs ausführen.

MATLAB Web App Server um MATLAB®-Apps und Simulink®-Simulationen als interaktive Web-Apps zu hosten.

Kontakt zur Produktnutzung in Lehre und Forschung

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+49-89-45235-6832, kkugler@mathworks.com

Mehr Informationen zur Online Lehre? Registrieren Sie sich hier:

MATLAB Technical Education Series

April – August 2021 | Online