

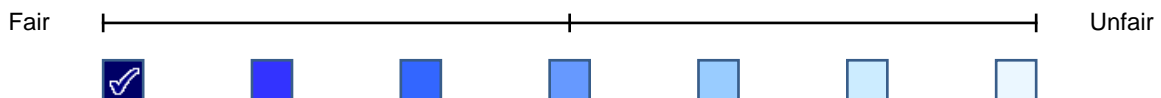
Fair Use Evaluation Documentation

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| | |
|------------------------------|---|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Image of open-deck railroad bridge from book titled "Design and Construction of Modern Railway Bridges" |
| Copyright Holder: | John Unsworth |
| Publication Status: | Published |
| Publisher: | CRC Press |
| Place of Publication: | 2017 |
| Publication Year: | |
| Description of Work: | |
| Date of Evaluation: | January 2, 2020 |
| Date of Intended Use: | January 2, 2020 |

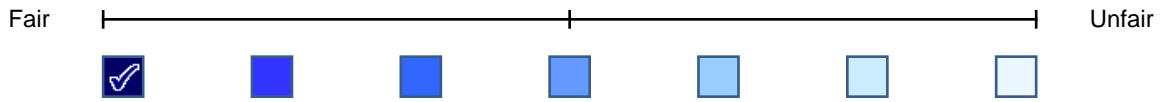
Describe the **Purpose** and Character of Your Intended Use:

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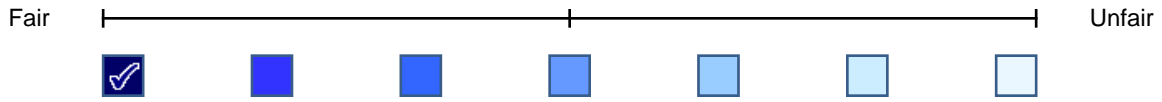
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

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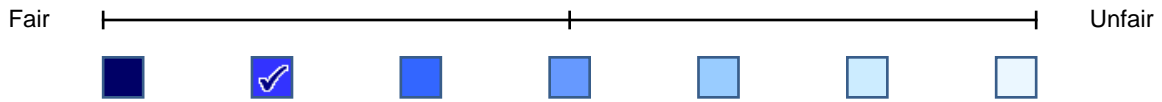
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Only two images are used which are a proportionally small amount compared to the entire book source.



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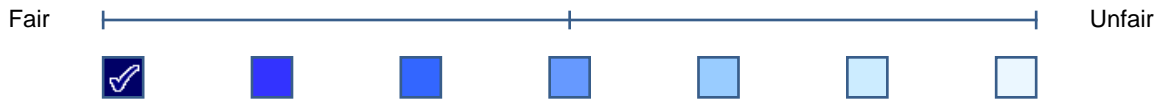
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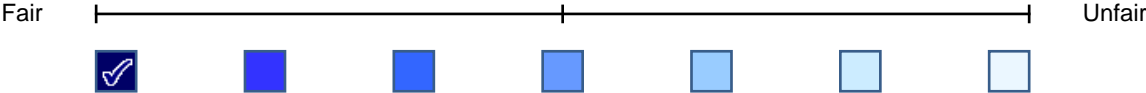
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|------------------------------|---|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Images of train wheelset and beam on elastic foundation from book titled "The Railway Track and its Long-Term Behavior" |
| Copyright Holder: | Konstantinos Tzanakakis |
| Publication Status: | Published |
| Publisher: | |
| Place of Publication: | |
| Publication Year: | 2013 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

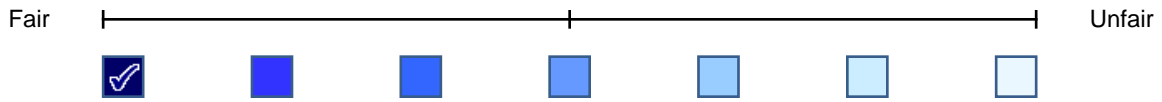
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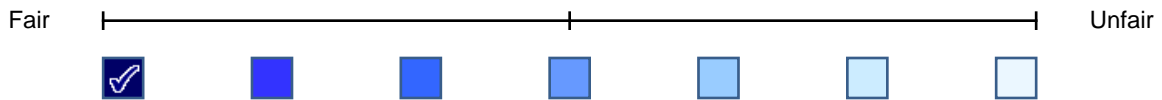
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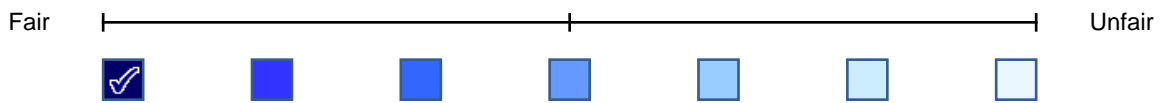
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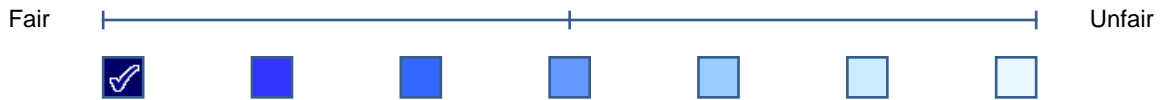
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The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

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Based on the information and justification I have provided above, I, John Gergel, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

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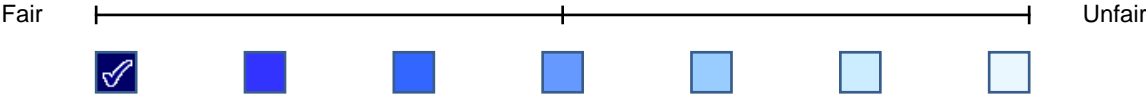
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|------------------------------|---|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Images from AREMA manual |
| Copyright Holder: | American Railway Engineers and Maintenance-of-way Association |
| Publication Status: | Published |
| Publisher: | American Railway Engineers and Maintenance-of-way Association |
| Place of Publication: | |
| Publication Year: | 2017 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

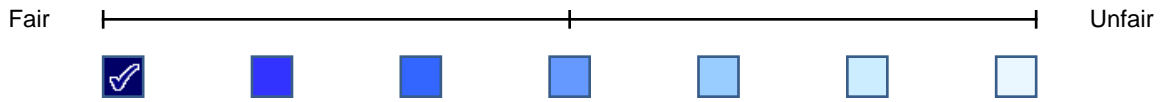
Describe the **Purpose** and Character of Your Intended Use:

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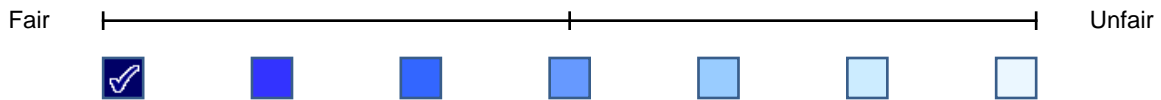
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

The images are from a manual which is published by AREMA and available to everyone.



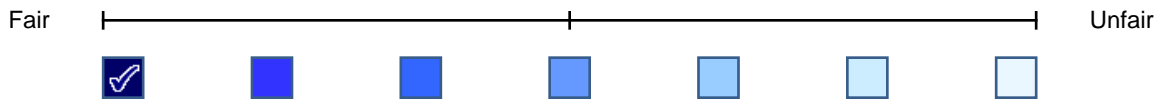
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Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

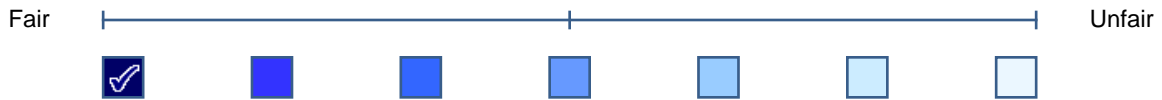
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The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

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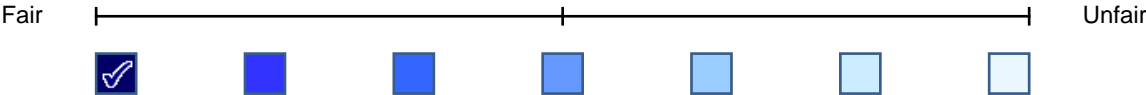
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|------------------------------|---|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Images from paper titled "Fundamentals of Railway Curve Superelevation" |
| Copyright Holder: | Jeffrey G. Hook |
| Publication Status: | Published |
| Publisher: | |
| Place of Publication: | |
| Publication Year: | 2017 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

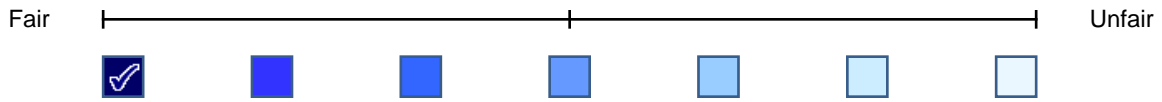
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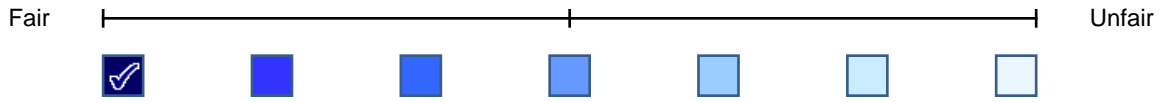
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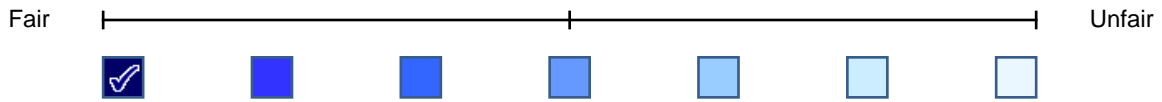
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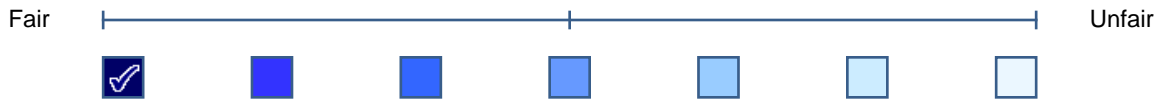
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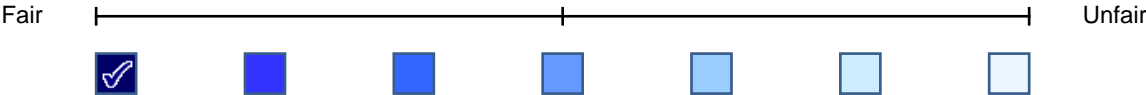
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|------------------------------|--|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Images from paper titled "On the fundamentals of track lateral resistance" |
| Copyright Holder: | Andrew Kish |
| Publication Status: | Published |
| Publisher: | American Railway Engineers and Maintenance-of-way Association |
| Place of Publication: | |
| Publication Year: | 2011 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

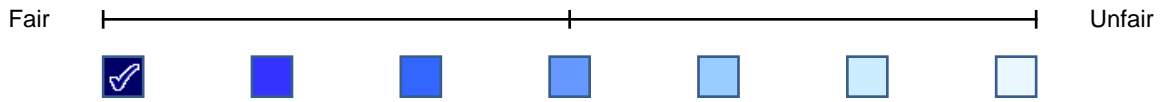
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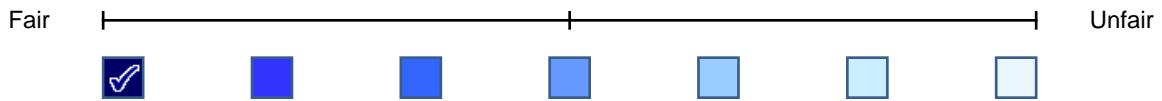
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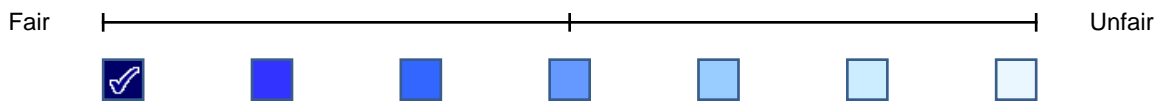
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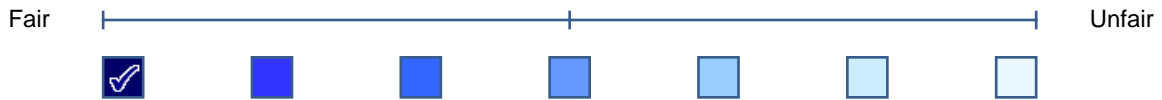
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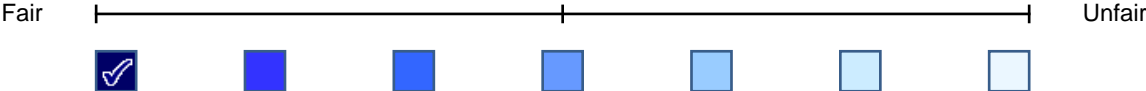
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| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Image from paper titled "Analysis of Wheel/Rail Force and Flange Force During Steady State Curving of Rigid Trucks" |
| Copyright Holder: | Herbert Weinstock |
| Publication Status: | Published |
| Publisher: | |
| Place of Publication: | Cambridge, MA |
| Publication Year: | 1980 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

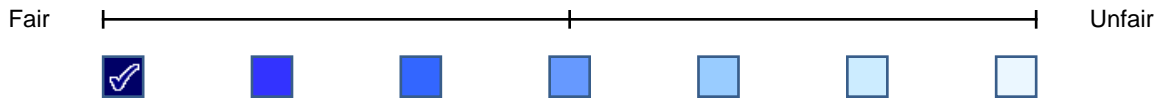
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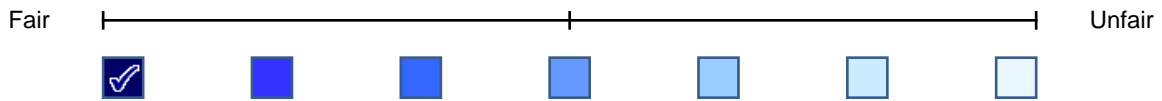
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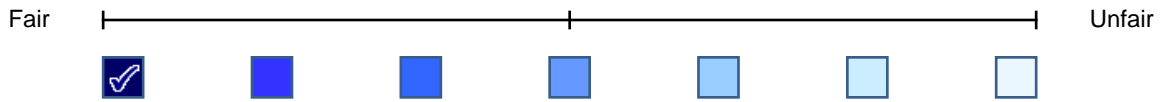
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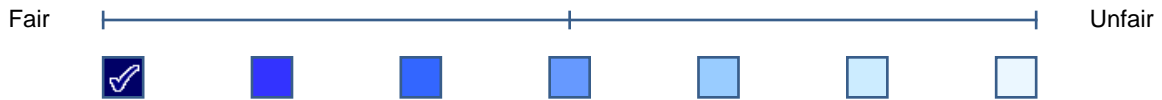
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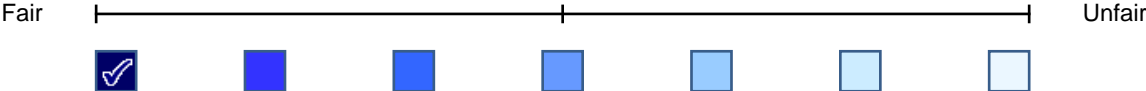
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| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Table taken from a paper titled "Loading Spectra for Railway Bridges under Current Operating Conditions" |
| Copyright Holder: | Daniel H. Tobias |
| Publication Status: | Published |
| Publisher: | |
| Place of Publication: | |
| Publication Year: | 2002 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

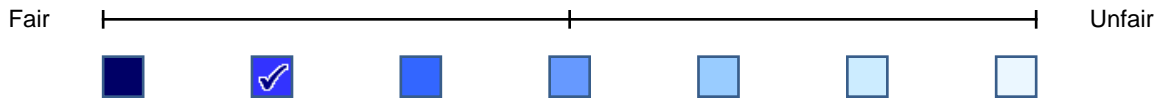
Describe the **Purpose** and Character of Your Intended Use:

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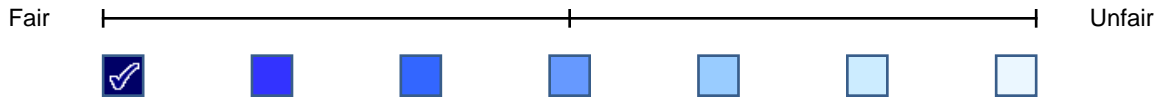
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

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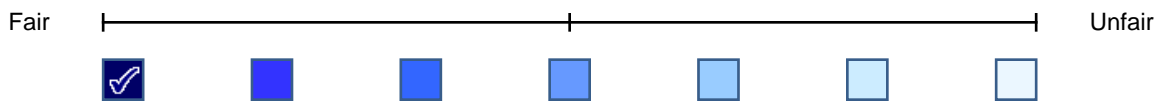
Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

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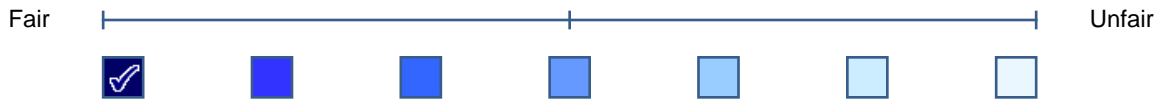
The table is only used in the literature review section of a thesis which is intended to describe previous research on the topic and is not intended to be used for profit



The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

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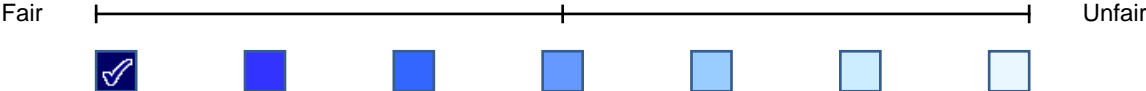
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|------------------------------|---|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Table taken from a conference paper titled "Live Load Spectra for Railway Bridges in USA" |
| Copyright Holder: | Anna Rakoczy |
| Publication Status: | Published |
| Publisher: | |
| Place of Publication: | |
| Publication Year: | 2018 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

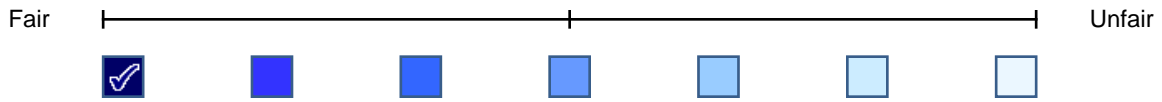
Describe the **Purpose** and Character of Your Intended Use:

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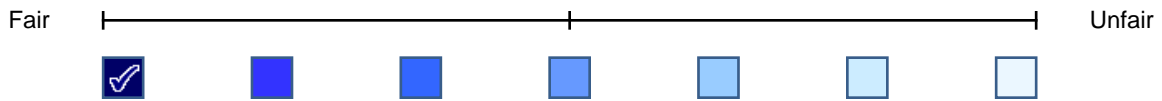
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

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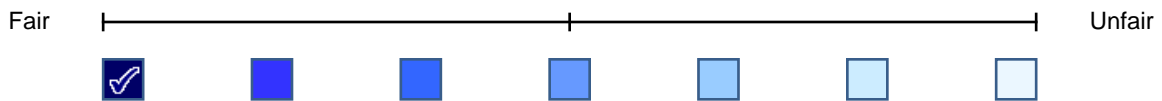
Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

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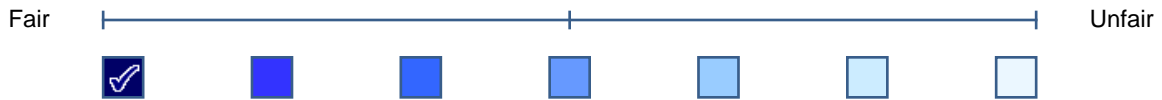
The table is used in a literature review portion of a thesis which is not intended to make profit



The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

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Based on the information and justification I have provided above, I, John Gergel, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

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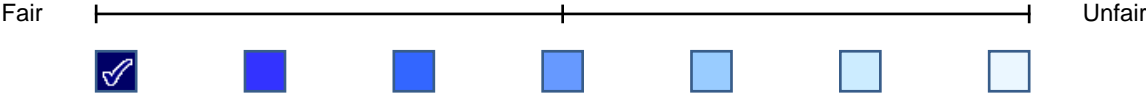
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| | |
|------------------------------|--|
| Name: | John Gergel |
| Job Title: | Graduate Research Assistant |
| Institution: | Virginia Polytechnic Institute and State University |
| Title of Work Used: | Images taken from "Standard Guide for Measuring and Reporting Friction Coefficients" by ASTM |
| Copyright Holder: | American Society for Testing and Materials |
| Publication Status: | Published |
| Publisher: | American Society for Testing and Materials |
| Place of Publication: | West Conshohocken, PA |
| Publication Year: | 2018 |
| Description of Work: | |
| Date of Evaluation: | January 3, 2020 |
| Date of Intended Use: | January 3, 2020 |

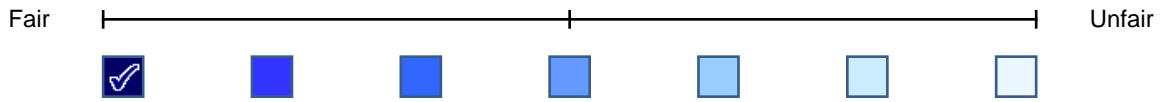
Describe the **Purpose** and Character of Your Intended Use:

The images are used for a thesis which is for educational and research purposes



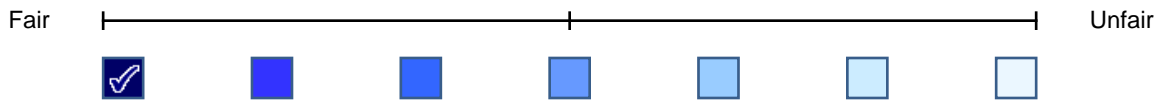
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

The work is part of a guide by ASTM which is accessible and known information to any engineer



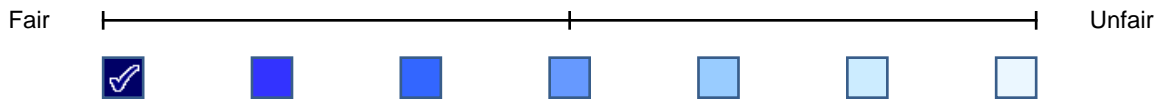
Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

Only two images are taken from the ASTM standard, which is small in comparison to the overall size of the standard itself



Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

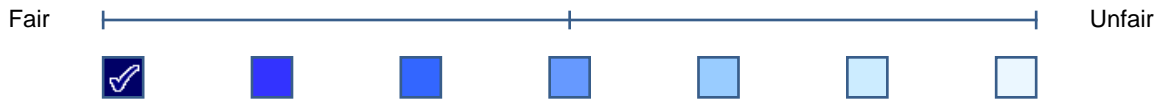
The images are intended to help with the research for a thesis which is a one-time paper and does not seek profit



The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

[\[see tool disclaimer for important clarifying information\]:](#)



Based on the information and justification I have provided above, I, John Gergel, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: _____

Date of Signature: _____

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