

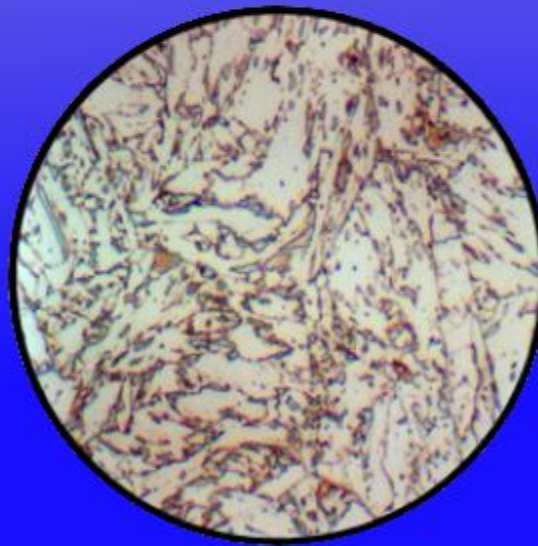
# AusEvol Pro mobile application on the Android platform for modeling microstructure and mechanical properties of steels

*chemical  
composition*

C Mn Si Cr Ni Mo  
Nb V Ti B  
N S P

+

*microstructure*



=

*mechanical  
properties*



## *Who would benefit from this application?*

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AusEvol Pro application is designed for those who develop and optimize the thermo-mechanical treatments of steels, being a convenient tool for calculating the final microstructure and mechanical properties of steels using a small initial dataset - chemical composition, parameters of initial microstructure and cooling conditions.

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*Install the application via Google Play*



## *Solvable problems*

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This application is a mobile version of the computer program AusEvol Pro and implements a number of its capabilities for calculating parameters of the final microstructure and mechanical properties of steels after continuous cooling from the austenitic region:

- ➔ phase transformation temperatures
- ➔ volume fractions of structural components in the final microstructure
- ➔ characteristic dimensions of structural elements
- ➔ final mechanical properties and impact characteristics

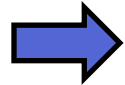
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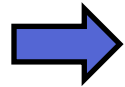


## *The advantages of this application*

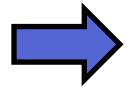
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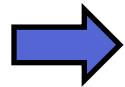
an availability on virtually any Android device



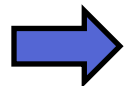
a relatively low cost of purchasing the full version with provision of a free trial period



an ability to calculate parameters of a complex microstructures of modern steels with a wide range of chemical composition changes



a wide range of calculated properties of steels: from a standard static mechanical properties to impact characteristics



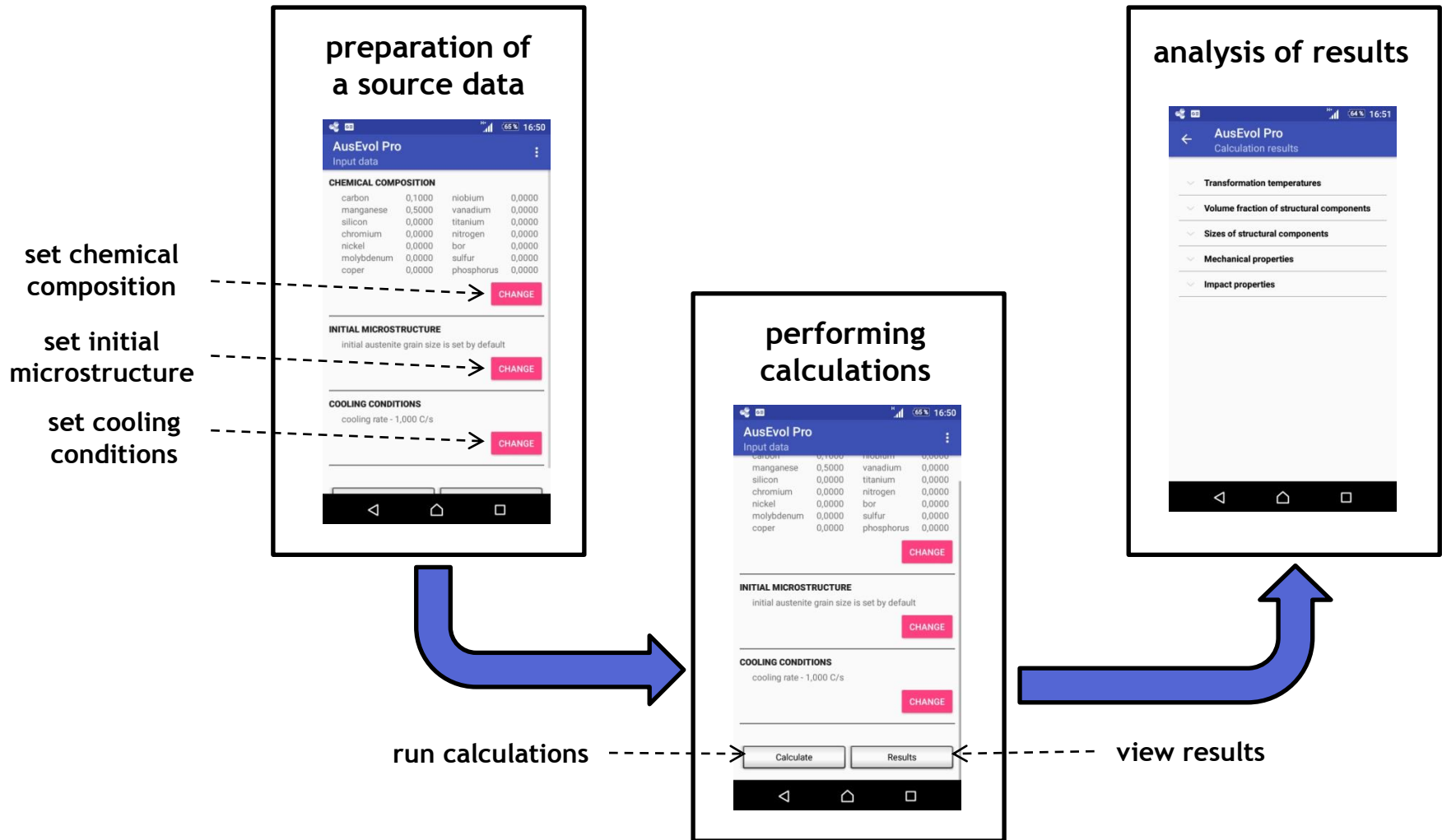
an accuracy of mechanical properties calculation with a relative error of no more than 8%

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# Convenient and simple interface



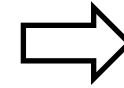
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## Contact Information

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If you have any questions, contact us by e-mail: [sklv.d.f@gmail.com](mailto:sklv.d.f@gmail.com)