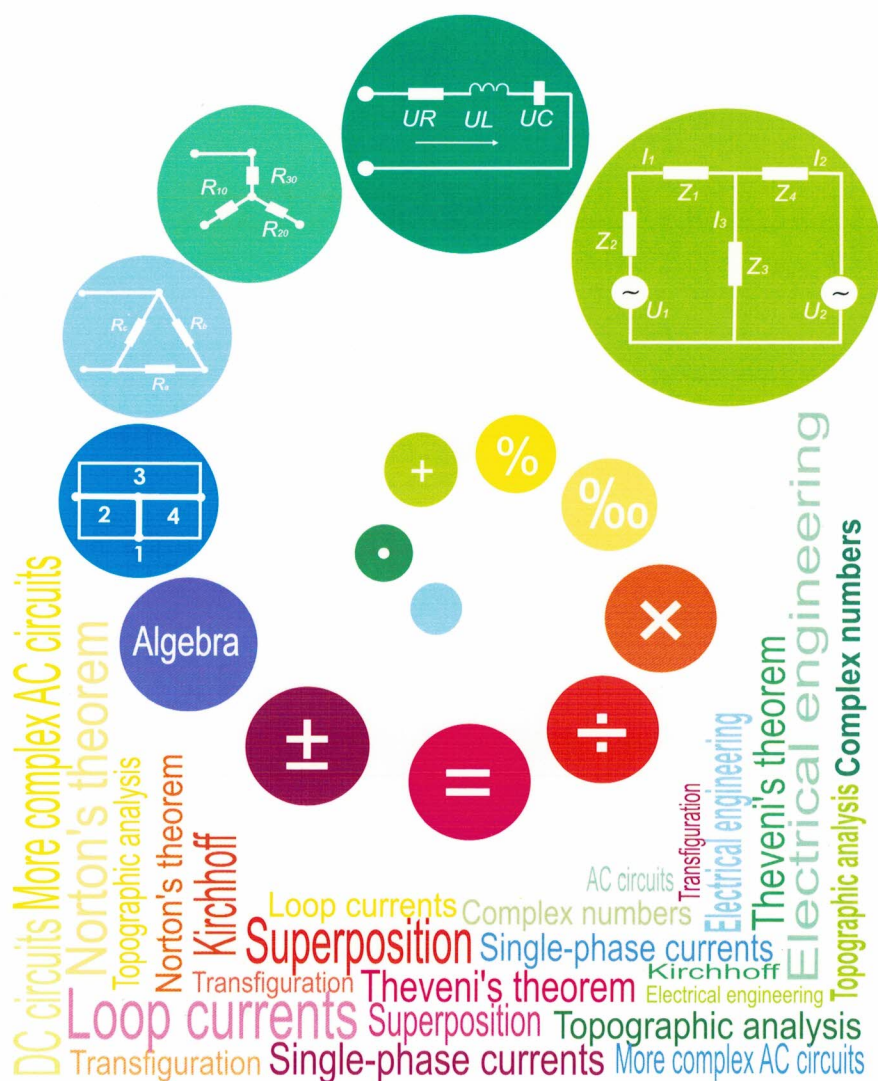


Ján Vlnka - Jozefa Červeňová

Collection of solved examples

**in theoretical electrical engineering
for students of mechanical engineering**

Single-phase circuits



2021

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FOREWORD

The publication is intended for students of Faculty of Mechanical Engineering of Slovak University of Technology in Bratislava, ERASMUS students, for the internationalization of education and science in Slovakia, for academic mobility, within the Central European exchange program for university studies CEEPUS and for general public. The publication complements the theoretical knowledge from lectures, deepens and practically shows the knowledge gained in lectures but also by studying the solution of practical tasks that are in line with the focus on the new accreditation program, for students giving comprehensive instructions for solving single-phase circuits. The publication consists of theoretical introduction and solved examples with circuit schemes and the solution of phasor diagrams. The publication presents typical tasks given to students of civil engineering in exams from the former Department of Electrical Engineering, founded in 1962. The publication is, among other things, a tribute to the founder of the Department of Electrical Engineering, Assoc. prof. Eng. Ivan Puzjak, PhD. on the occasion of his un-dead 92 birthday.

It is our kind duty to thank all those who have helped us with their experience and advice in preparation, and we thank our opponents for their valuable comments. At the same time, we thank the KEGA project for their support.

We believe that the publication will help listeners and general public to cope with the issue of single-phase currents and will be a good aid in the study.

In Bratislava, July 2021

Authors

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