

# METHOD OF CALCULATING CURRENTS OF A GROUP OF PARALLEL ELECTRIC ARC STEEL MELTING FURNACES

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The paper presents a method of calculating electrical and operating characteristics of any number of parallel EASMFs due to the reduction of furnace circuit resistances to high-voltage buses and the use of the method of superposition. It is shown that in order to determine the combined operating current of parallel EASMFs at the method of adding series-parallel resistances of a group of EASMFs and the method of EASSF operating currents according to the cosine law can be used. It has been found that determining the combined operating current of parallel EASMFs by simple adding of operating currents leads to insignificant errors.

*Parallel electric arc steel smelting furnaces, method of calculating currents, furnace circuit resistance*

## References

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