$$J = \sum_{i=1}^{n} (F(x_i) - y_i)^2 \to \min$$

where y_i is the tabulated value of the assumed function at point x_i, $F(x_i)$ is the approximation function value at point x_i, and i is the number of the points, $i = \overline{1,n}$.

Analysis of the simulated approximation functions has shown that the least approximation error is obtained by the hyperbolic function $F(x) = a / x + b$ for the overhead transmission lines [7].

V. CONCLUSION

Considering the problem of usage of the information about electrotechnical equipment technical state for further repair work, it is necessary to select following levels of adequacy of estimations.

The first level – defining operating conditions according to reliability index, i.e. parameter of failure flow or reconstruction intensity.

The second level – defining technical state of the product according to probable defect characteristics and the damages revealed in a certain time.

The third level – state defining according to continuously controlled process variable, defining operating conditions of equipment elements.

According to given scheme, the basic task adds up to taking into account and dataflow management, providing data system operation [15][16].

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