

UDK 620.22
BBK Ч481.211я7

*Published by the decision of the Editorial Review Board
of the Kazan National Research Technological University*

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Bezrukov A.

Introduction to Smart Material : tutorial / A. Bezrukov, Yu. Galyametdinov;
The Ministry of Education and Science of the Russian Federation, Kazan
National Research Technological University. – Kazan : KNRTU Press,
2018. – 84 p.

ISBN 978-5-7882-2570-8

This tutorial discusses some aspects of synthesis and practical application of smart materials - the objects of cutting edge fundamental and applied research. Various types of smart materials are discussed, such as polymer composites, liquid crystal systems, target drug delivery systems, and etc.

This tutorial is originally composed in English. The tutorial is designed for students in the following Master's Degree training areas: 18.04.01 "Chemical Engineering", 28.04.02 "Nanoengineering", 22.04.02 "Materials Science and Materials Engineering", and PhD students in the 04.06.01 "Chemical Engineering" area.

The tutorial was composed at the Department of Physical and Colloidal Chemistry.

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*This tutorial was developed with the support of Potanin Foundation Grant
for Master's program teaching faculty, Agreement # ГСГК-25/18.*

ISBN 978-5-7882-2570-8

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