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Nota di contenuto	1. Simulation of penetration of steel projectile with ogive nose into the sandwich target with foam, polystyrene and poly rubber core using autodyne software / Ali Fazlipur and Hossein Khodarahmi -- 2. Simulation of penetration of tungsten projectile into the composite ceramics : metal target using autodyn software / Ali Fazlipur and Hossein Khodarahmi -- 3. Chemical modification of syndiotactic 1,2-polybutadiene / M.I. Abdullin, A.B. Glazyrin, O.S. Kukovinets, A.A. Basyrov, and G.E. Zaikov -- 4. Specifics of selective wetting of some metal substrates and their oxides / D.A. Nguyen, I.A. Starostina, O.V. Stoyanov, and D.V. Vezenov -- 5. Technical notes in applied quantum chemistry / V.A. Babkin, D.S. Andreev, Yu. A. Prochukhan, K. Yu. Prochukhan, and G.E. Zaikov -- 6. New insights in nanoporous membrane science / B. Hadavi Moghadam and A.K. Haghi -- 7. Structure and ozone resistance of vulcanized acrylonitrile-butadiene rubbers with poly(vinyl chloride) blends / N.M. Livanova, A.A. Popov, S. G. Karpova, and G.E. Zaikov -- 8. Morphology and physical-mechanical parameters of poly(3-hydroxybutyrate) : polyvinyl alcohol blends / A.A. Ol'khov, A. L. Iordanskii, and G.E. Zaikov -- 9. Prospective production

ways of new heat-resisting materials based on polyimides / E.T. Krut'ko and N.R. Prokopchuk -- 10. Protective properties of modified epoxy coatings / N.R. Prokopchuk, M.V. Zhuravleva, N.P. Ivanova, T.A. Zharskaya, and E.T. Krut'ko -- 11. Modification of polyamide-6 by n,n'-bis-maleamidoacid / N.R. Prokopchuk, E.T. Krut'ko, and M.V. Zhuravleva -- 12. Efficient synthesis of a bis-spiro-3,1-benzoxazin-4,1'-cyclopentanes / Sh. Salikhov, R.R. Zaripov, S.?. Krasko, L.R. Latypova, N.?. Gubaidullin, and I.B. bdrakhmanov -- 13. Polyconjugated linear and cardo oligomers based on aromatic diamines and their thermal properties / A.F. Yarullin, L.E. Kuznetsova, A.F. Yarullina, Kh. S. Abzaldinov, O.V. Stoyanov, and G.E. Zaikov -- 14. Alkylolation of aromatic hydrocarbons by polyhalogen-containing cyclopropanes / A. N. Kazakova, G.Z. Raskildina, N.N. Mikhaylova, L.V. Spirikhin, and S.S. Zlotsky -- 15. GnRH analogs as modulator of LH and FSH : exploring clinical importance / Debarshi Kar Mahapatra, Vivek Asati, and Sanjay Kumar Bharti.

Sommario/riassunto

Understanding chemical and solid materials and their properties and behavior is fundamental to chemical and engineering design. With some of the world's leading experts describing their most recent research, this book describes the procedures for material selection and design to ensure that the most suitable materials for a given application are identified from the full range of materials, chemicals, and section shapes available. Several case studies have been developed to further illustrate procedures and to add to the practical implementation of the text.
