

Contents

| | |
|---|----|
| Evgeny L. Pankratov A model for changing the technological process for the growth of epitaxial layers by means of the heating of the growth zone | 5 |
| Andrei V. Chesnokov, Vitalii V. Mikhailov, Ivan V. Dolmatov The influence of material aging on the structural behavior of a flexible roof with a polymer membrane shell | 13 |
| Markus Baum, Denis Anders A numerical simulation study of mold filling in the injection molding process | 25 |
| Susanne Fritz Considering semi-crystallinity in molecular simulations of mechanical polymer properties – using nanoindentation of polyethylene as an example | 35 |
| Christian Gierden, Johanna Waimann, Bob Svendsen, Stefanie Reese FFT-based simulation using a reduced set of frequencies adapted to the underlying microstructure | 51 |