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Analysis of Strategic Market Management in Light of Stochastic Processes, Recurrence Relation, Abelian Group and Expectation

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- Prasun Chakrabarti (1) (2) Email author (drprasun.cse@gmail.com)
- Tulika Chakrabarti (3)
- Siddhant Bane (4)
- Biswajit Satpathy (1)
- Indranil SenGupta (5)
- Jonathan Andrew Ware (6)

1. Department of Business Administration, Sambalpur University, , Sambalpur, India
2. Techno India NJR Institute of Technology, , Udaipur, India
3. Department of Chemistry, Sir Padampat Singhania University, , Udaipur, India
4. Department of Computer Science and Engineering, ITM Universe, , Vadodara, India
5. Department of Mathematics, North Dakota State University, , Fargo, USA
6. University of South Wales, , Pontypridd, Cymru, UK

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Abstract

This paper entails a novel approach of analysis of strategic market management based on renewal reward stochastic process. The paper has also pointed out a discovered fact that clearly infers realization of cost analysis of product revalidation in light of Brownian motion with drift. The paper indicates a rare and new concept of how can compound stochastic process be applied to sense business cost analysis. In demand–supply analysis, there lies the essence of realization of alternating renewal theory-based customer satisfaction. Furthermore, the paper also shows a novel analysis of product upgradation in light of conditional expectation and simple random walk. Facts related to recurrence relation, Abelian group and expectation indicate a non-conventional approach of business gain prediction.

Keywords

Renewal reward stochastic process   Brownian motion with drift
Compound Poisson process   Alternating renewal theory   Conditional expectation
Simple random walk   Recurrence relation   Abelian group
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