

# A Model for Optimizing the Refund Value in Rebate Promotions

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*We derive a simple model for finding the optimal refund to be offered to final consumers by manufacturers to firms during rebate promotions. The key parameter in our model is the typical expectation of the consumer function: immediate acceleration and rebuy by brand switchers. Dependence upon a firm's objectives and given some generally accepted assumptions about the firm's demand function, an optimal refund rate is derived that is different from the short-term rebate rate.*

As we scan advertisements by retailers in newspapers, magazines, catalogs, and other media, we observe ongoing attempts to increase sales of designated products by use of non-pricing promotions that are distinguished from conventional price reductions. Two of the more popular methods are *cash-off* coupons and refund offers (rebates). This study focuses on rebate offers for consumer durable goods. For the purpose of this investigation, a rebate program is defined as "an offer by the manufacturer to refund a proportion of the price paid by the consumer either in a proof-of-purchase and other forms." At issue is how both the short-term and long-term objectives of the manufacturer contribute to the determination of the optimal refund rate.

Following numerous discussions with executives who design rebate programs, we learned that intuition and judgment rather than research and methods of science guide the planning and evaluation of such programs. There are no known formulas, models, or heuristic techniques to assist managers in establishing the optimal refund rate. In our model, to be presented, we recognize the existence of interrelationships among promotion-related company actions and marketplace reactions such as price sensitivity and the failure of consumers to request refund as well as they are entitled (clip paper). In this paper, we propose a model that organizes our initial knowledge about rebate programs within a mathematical (discrete-time) framework. Our reconstruction of

the rebate optimization problem incorporates the redemption function—purchase acceleration, and rebuys by brand switchers. It also helps us to consider the long-term effects of the rebate promotion beyond the temporal value assessed during the rebate campaign. We then use numerical analysis to explore the effects of specific factors on the optimal refund rate. Depending upon firm objectives and given some generally accepted assumptions about the firm's demand function, it is shown that an optimal refund rate exists, and that this rate should be different than the short-term refund rate. Our analysis of the interrelated factors that influence the optimal refund rate may improve our understanding of the firm's determination of the optimal rebate level and may also stimulate further work on an important topic that has been neglected by researchers to date.

## Literature Review

Despite the large number of vertical trade promotions involving producer—dealer—consumer price-related deals, a paucity of research and literature dealing with rebate programs exists. In a study recently devoted to rebate promotions, Johnson et al. (1987) observed that subsequent rebate users far outnumbered heavy or non-users in a randomly selected sample of appliance shoppers in a large eastern city. The findings indicated that an increase in price-conscious, infrequent users are more likely to establish an acceptable minimum refund percentage, yet more likely to perceive the overall promotional effort as substantial and more likely to forego the refund request (see also Nagle, 1987).

A firm will typically undertake a rebate promotion, like any other promotion, only if it generates an incremental profit. The profitability of a rebate promotion depends upon whether the incremental beyond the normal level sales revenue contributed by the promotion outweighs its incremental costs (Gross and Newmark, 1989). Blumberg and Neftci (1987) identify four basic mechanisms by which promotions contribute incremental sales: brand switching, repeat purchasing (rebuy), purchase acceleration, and category expansion (see the Journal of Marketing (1983) for a more precise

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# A Model For Optimizing The Refund Value In Rebate Promotions

**Julia Freiheit**



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*Smart Customers and Retail Promotions* Julia Freiheit,2013-12-19 The author develops a model which allows a highly accurate forecast of demand taking into account smart customer behavior and promotional activities Journal of Marketing ,1995 **Business Periodicals Index** ,1993 **Marketing Analytics** Rajkumar Venkatesan,Paul W. Farris,Ronald T. Wilcox,2021-01-13 The authors of the pioneering Cutting Edge Marketing Analytics return to the vital conversation of leveraging big data with Marketing Analytics Essential Tools for Data Driven Decisions which updates and expands on the earlier book as we enter the 2020s As they illustrate big data analytics is the engine that drives marketing providing a forward looking predictive perspective for marketing decision making The book presents actual cases and data giving readers invaluable real world instruction The cases show how to identify relevant data choose the best analytics technique and investigate the link between marketing plans and customer behavior These actual scenarios shed light on the most pressing marketing questions such as setting the optimal price for one s product or designing effective digital marketing campaigns Big data is currently the most powerful resource to the marketing professional and this book illustrates how to fully harness that power to effectively maximize marketing efforts **Computerworld** ,2006-07-24 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Comprehensive Dissertation Index** ,1989 *F & S Index United States Annual* ,2006

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