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**Geometrical product specifications  
(GPS) — Surface texture: Profile  
method — Flowchart for *PSm*, *RSm*,  
*WSm* and *Pc*, *Rc*, *Wc***



Reference number  
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## Foreword

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This document was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

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## Introduction

Feature characterization of rough surfaces is of growing interest in terms of a function-oriented description of technical surfaces. A well-known set of feature parameters is the mean width and mean height of profile elements defined in ISO 4287. Unfortunately, the definition given in ISO 4287 is insufficient for an unambiguous implementation in a high-level programming language. Due to the lack of a flowchart, results given by different software packages are not comparable. The main intention of this document is to provide an unambiguous algorithm for feature parameters  $PSm$ ,  $RSm$ ,  $WSm$  and  $Pc$ ,  $Rc$ ,  $Wc$  according to ISO 4287.

The flowchart defined in this document was developed by Seewig and Scott<sup>[5]</sup> and represents an extension of crossing the line segmentation proposed by Scott<sup>[4]</sup>. The flowchart is based on new knowledge gathered over the past 10 years.