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From Andrews' formula for the Fibonacci numbers to the Rogers-Ramanujan identities,

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Abstract

In 1970, Andrews proved a certain polynomial identity (which can be traced back to Schur) and this identity, under appropriate limits, gives the celebrated Rogers-Ramanujan identities. Andrew's method forms the basis for many exciting developments in the last three decades. In this paper, we give an alternative proof of this important result. The key ingredient of our proof is also due to Andrews: it is a technique that Andrews used to prove a new formula for the Fibonacci numbers, dated back to the late 60s.