What is claimed is:

1. An antireflective matte film comprising a microstructured surface layer comprising a plurality of microstructures having a complement cumulative slope magnitude distribution such that at least 30% have a slope magnitude of at least 0.7 degrees and at least 25% have a slope magnitude less than 1.3 degrees; wherein the microstructured surface or an opposing surface further comprises nanostructures.

2. The antireflective matte film of claim 1 wherein the nanostructures comprise a plurality of substantially parallel linear grooves.

3. The antireflective matte film of claims 1-2 wherein the nanostructures have an average pitch of less than 500 nm.

4. The antireflective matte film of claims 1-3 wherein the discrete peak microstructures have a mean equivalent circular diameter of at least 5 microns.

5. The antireflective matte film of claims 1-4 wherein the film has a clarity of at least 60%.

6. The antireflective matte film of claims 1-5 wherein the film has a haze of no greater than 10%.

7. The antireflective matte film of claims 1-6 wherein the antireflective film has an average photopic reflection of less than 2% at a wavelength of 550 nm.

8. The antireflective matte film of any of the previous claims wherein no greater than 50% of the microstructures comprise embedded matte particles.

9. The antireflective matte film of any of the previous claims wherein the microstructured surface is free of embedded matte particles.

~~10. The antireflective matte film of claims 1-9 wherein at least 30%, 35%, or 40% of the microstructures have a slope magnitude of less than 1.3 degrees.~~

10~~11~~. The antireflective matte film of claims 1-~~10~~ 9 wherein less than 15%~~, 10% or 5%~~ of the microstructures have a slope magnitude of 4.1 degrees or greater.

~~12. The antireflective matte film of any of the proceeding claims wherein at least 75% of the microstructures have a slope magnitude of at least 0.3 degrees.~~

11~~13~~. The antireflective matte film of any of the preceding claims wherein the film has an average roughness (Ra) of less than 0.14.

~~14. The antireflective matte film of any of the preceding claims wherein the film has an average maximum surface height (Rz) of less than 1.20.~~

12~~15~~. (Amended to include Claim 21) A microstructured article comprising a plurality of discrete peak microstructures having a complement cumulative slope magnitude distribution such that at least 30% have a slope magnitude of at least 0.7 degrees and at least 25% have a slope magnitude less than 1.3 degrees; wherein the microstructures have a complex shape.

13~~16~~. The microstructured article of claim 12 wherein the nanostructures comprise a plurality of substantially parallel linear grooves.

14~~17~~. The microstructured article of claim ~~16~~13 wherein the nanostructures have an average pitch of less than 500 nm.

15~~18~~. The microstructured article of claims ~~15-17~~12-14wherein the discrete peak microstructures have a mean equivalent circular diameter of at least 5 microns.

16~~19~~. The microstructured article of claims ~~15-16~~ 12 wherein the article is a light-transmissive film.

17~~20~~. The microstructured article claim ~~17~~ 12 wherein the film is a matte film.

~~21. The microstructured article of claim 20 wherein the plurality of discrete peak microstructures having a complement cumulative slope magnitude distribution such that at least 30% have a slope magnitude of at least 0.7 degrees and at least 25% have a slope magnitude less than 1.3 degrees.~~

~~22. The microstructured article of claim 21 wherein the plurality of discrete peak microstructures have a complement cumulative slope magnitude distribution according to claims 10-12.~~

18~~23~~. A microstructured article comprising a plurality of discrete depressions corresponding to a negative replication of the plurality of peaks of claims 12-17~~15-22~~.

19~~24~~. The microstructured article of claim ~~23~~18 wherein the microstructured article is a tool.

~~25. The microstructured article of any of the previous claims wherein the microstructured surface layer comprises the reaction product of a polymerizable resin composition.~~

~~26. The microstructured article of claim 25 wherein the polymerizable resin composition comprises one or more (meth)acrylate monomers.~~

~~27. The microstructured article of claim 26 wherein the polymerizable resin composition comprises a urethane (meth)acrylate.~~

~~28. The microstructured article of claims 25-27 wherein the polymerizable resin composition further comprises nanoparticles.~~

20~~29~~. A method of making a microstructured article comprising:
providing a diamond tool wherein at least a portion of the tool comprises a plurality of tips wherein the pitch of the tips is less than 1 micron;
cutting a substrate surface with the diamond tool wherein the diamond tool is moved in and out orthogonal to the surface along a direction at a pitch (P_1) and the diamond tool has a maximum cutter width P_2 and P_2/P_1 is 2 to 15.

~~30. The method of claim 29 wherein the microstructured article is a tool.~~

~~31. The method of claims 29-30 wherein the diamond tool comprises a single radius nanostructured tip.~~

What is claimed is:

1. An antireflective matte film comprising a microstructured surface layer comprising a plurality of microstructures having a complement cumulative slope magnitude distribution such that at least 30% have a slope magnitude of at least 0.7 degrees and at least 25% have a slope magnitude less than 1.3 degrees; wherein the microstructured surface or an opposing surface further comprises nanostructures.

2. The antireflective matte film of claim 1 wherein the nanostructures comprise a plurality of substantially parallel linear grooves.

3. The antireflective matte film of claims 1-2 wherein the nanostructures have an average pitch of less than 500 nm.

4. The antireflective matte film of claims 1-3 wherein the discrete peak microstructures have a mean equivalent circular diameter of at least 5 microns.

5. The antireflective matte film of claims 1-4 wherein the film has a clarity of at least 60%.

6. The antireflective matte film of claims 1-5 wherein the film has a haze of no greater than 10%.

7. The antireflective matte film of claims 1-6 wherein the antireflective film has an average photopic reflection of less than 2% at a wavelength of 550 nm.

8. The antireflective matte film of any of the previous claims wherein no greater than 50% of the microstructures comprise embedded matte particles.

9. The antireflective matte film of any of the previous claims wherein the microstructured surface is free of embedded matte particles.

10. The antireflective matte film of claims 1-9 wherein less than 15% of the microstructures have a slope magnitude of 4.1 degrees or greater.

11. The antireflective matte film of any of the preceding claims wherein the film has an average roughness (Ra) of less than 0.14.

12. A microstructured article comprising a plurality of discrete peak microstructures having a complement cumulative slope magnitude distribution such that at least 30% have a slope magnitude of at least 0.7 degrees and at least 25% have a slope magnitude less than 1.3 degrees; wherein the microstructures have a complex shape.

13. The microstructured article of claim 12 wherein the nanostructures comprise a plurality of substantially parallel linear grooves.

14. The microstructured article of claim 13 wherein the nanostructures have an average pitch of less than 500 nm.

15. The microstructured article of claims 12-14 wherein the discrete peak microstructures have a mean equivalent circular diameter of at least 5 microns.

16. The microstructured article of claims 12 wherein the article is a light-transmissive film.

17. The microstructured article claim 12 wherein the film is a matte film.

18. A microstructured article comprising a plurality of discrete depressions corresponding to a negative replication of the plurality of peaks of claims 12-17.

19. The microstructured article of claim 18 wherein the microstructured article is a tool.