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Polymers differ

from other

substances by

the size of

their molecules

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which, appropriately  
enough, are referred to as  
macromolecules,  
since they consist of  
thousands or  
tens of  
thousands of  
atoms (molecular  
weight up to  $\sim 10^6$   
or more)  
and have a

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length (upto 10  
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developed a  
theory which can  
calculate the  
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describes the

effect of

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entanglements on

the relationship

between

molecular mass

and chain

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(or similarly,  
the polymer's  
zero-shear  
viscosity). The  
theory predicts  
that, in  
entangled  
systems, the  
relaxation time  
 $\tau$  is  
proportional to  
the cube of  
molecular mass,

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contains the  
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the theory and  
gives a compact  
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and without any  
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hypotheses. It  
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coefficient of

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tube model were  
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and have failed  
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often obscures  
the natural  
elegance of the  
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Gennes is one of  
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distinguished  
workers in the  
field of  
material  
science.

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mesophase, and

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mesomorphic  
state are used  
synonymously to  
describe a state  
of aggregation  
that exhibits a  
molecular order  
in a size range  
similar to that  
of a crystal but  
acts more or  
less as a  
viscous liquid:  
[2] In other

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words, molecules  
within a liquid  
crystalline  
phase possess  
some  
orientational  
order and lack  
positional  
order;  
furthermore, the  
shape of a  
liquid  
crystalline  
sample is

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determined by  
the vessel in  
which it is  
contained rather  
than by the  
orientational  
order of its  
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authors  
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but, like others preceding them, could not devise a simple and generally applicable one that is better. Regardless, the terms 'liquid crystal' and 'mesophase' should not be used interchangeably.

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above, all  
liquid crystals  
are mesophases,  
but all  
mesophases are  
not liquid  
crystals. Recent  
studies,  
employing  
elaborate and  
sophisticated  
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techniques, have

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distinctions  
between  
classical  
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they have made  
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reasons other  
than  
terminology. One  
part of the  
problem arises  
from the use of  
a combination of  
bulk properties  
(like flow) and  
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properties (like  
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Springer Series  
Liquid crystals,  
In Chemical  
polymers and  
Physics liquid  
crystals are  
soft condensed  
matter systems  
of major  
technological



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and scientific  
interest. An  
understanding of  
the macroscopic  
properties of  
these complex  
systems and of  
their many and  
interesting  
peculiarities at  
the molecular  
level can  
nowadays only be  
attained using

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computer  
simulations and  
statistical  
mechanical  
theories. Both  
in the Liquid  
Crystal and  
Polymer fields a  
considerable  
amount of  
simulation work  
has been done in  
the last few  
years with

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Mesoscopic classes  
of models at  
different  
special  
resolutions,  
ranging from  
atomistic to  
molecular and  
coarse-grained  
lattice models.  
Each of the two  
fields has  
developed its  
own set of tools

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Microscopic  
and specialized  
procedures and  
the book aims to  
provide a state  
of the art  
review of the  
computer  
simulation  
studies of  
polymers and  
liquid crystals.  
This is of great  
importance in  
view of a

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Microscopic cross-  
fertilization  
between these  
connected areas  
which is  
particularly  
apparent for a  
number of  
experimental  
systems like,  
e.g. polymer  
liquid crystals  
and anisotropic  
gels where the

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different fields  
necessarily  
merge. An effort  
has been made to  
assess the  
possibilities of  
a coherent  
description of  
the themes that  
have developed  
independently,  
and to compare  
and extend the  
theoretical and

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Computational  
techniques put  
forward in the  
different areas.  
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