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Historically, the

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multicomponent fluxes have first been written from empirical laws prior to being derived from the kinetic theory of gases or statistical mechanics. Moreover, even if the structure of multicomponent transport fluxes may be derived empirically or in the framework of macroscopic theories, only the kinetic theory of gases yield the multicomponent transport coefficients.

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**Multicomponent
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In this book, we give a rational treatment of multicomponent materials as interacting continua. We offer two derivations of the equations of motion for the interacting continua; one which uses the concepts of continua for the components, and one which applies an averaging operation to the continuum

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The gradient theory of
fluid interfaces is for
the first time applied,
without any lumping,
to complex mixtures of
more than three

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components, here made up of hydrocarbons and of a high proportion of carbon dioxide, nitrogen, or methane. It is combined with the volume-corrected Peng–Robinson equation of state.

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which allows for any number of components affecting one another's distribution behavior but admits only one mobile and one stationary phase. This theory has to be extended to more than one mobile phase.

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Multiphase
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For multicomponent fluids, the Tolman

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length, the rigidity constants, and the accuracy of the Helfrich expansion depend on the choice of path in composition and pressure space along which droplets and bubbles are considered.

Tolman lengths and rigidity constants of multicomponent ...

We present a theory of multicomponent mixtures which does

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not employ any splitting of component fluxes into convective and diffusive parts.

Instead, momentum balance is formulated individually for each component in which both 1) viscous friction within a component, and 2) momentum exchange among different components, are taken into account.

An alternative model of multicomponent

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diffusion based on

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Abstract. The temporal instability of a thin shear layer lying between streams of two components of fluids has been studied. The effects of density profile of the layer on the instability behavior were mainly considered. The detailed density profile was obtained through Linear Gradient Theory.

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Instability of a shear layer between multicomponent fluids ...

Abstract—Under the assumption that the coupling between the sound modes, and modes associated with heat and mass diffusion can be neglected, an expression for the Landau-Placzek ratio for multicomponent fluids is derived, using thermodynamic

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Ratio for
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is an exposition of the
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equations of motion for
multiphase flow,
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and particle-fluid
mixtures. The
approach taken is to
derive the equations of

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balance using
ensemble averaging.

They are the same as
those derived from
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methods.

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[Donald A Drew;
Stephen L Passman] --

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