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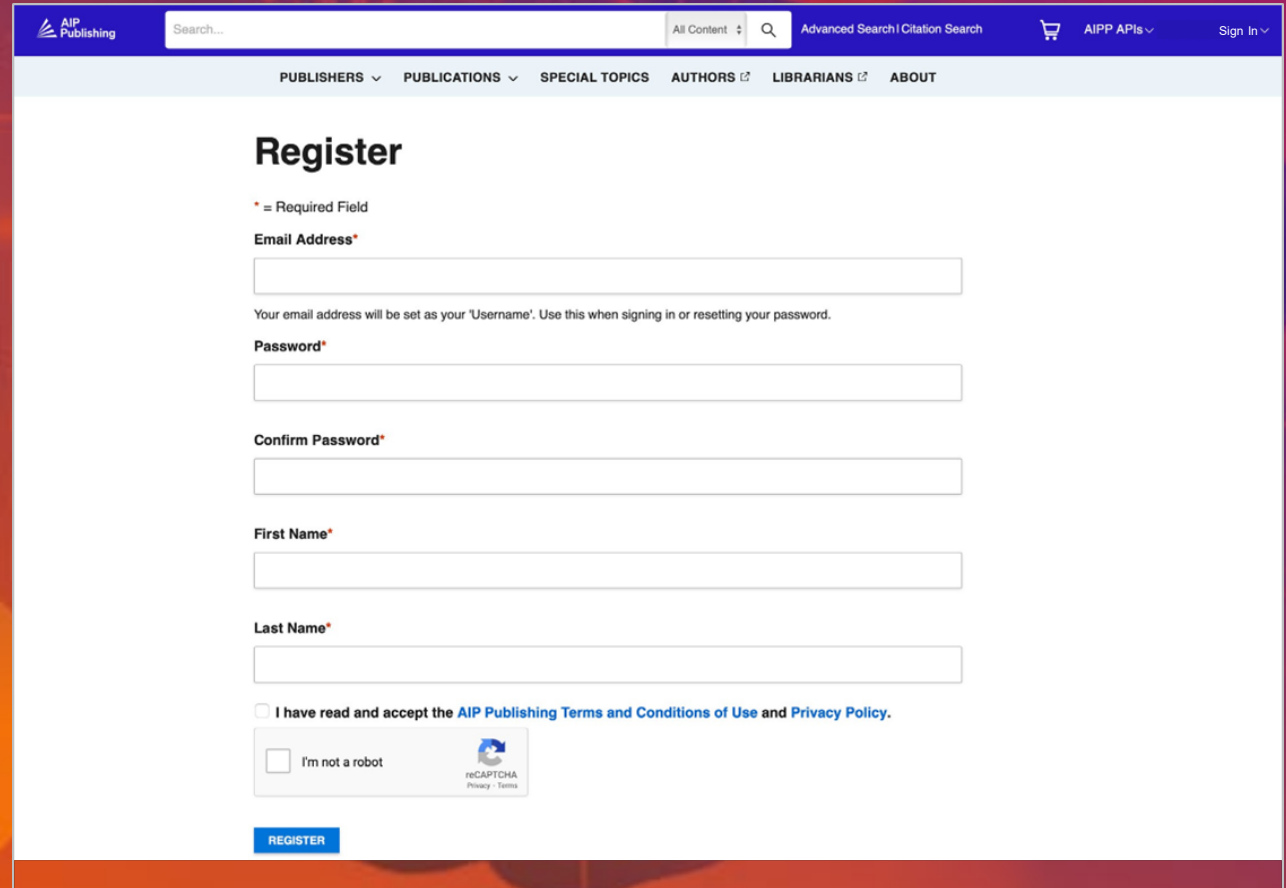
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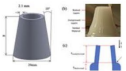
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Ying Liu, Matthew Hildner et al.

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The screenshot shows the AIP Publishing homepage with the "Citation Search" section highlighted. The section includes a "Citation" label, a dropdown menu for "Select a Journal", and input fields for "Volume" and "First Page". A blue "SEARCH" button is located below these fields. A note at the bottom of the section states: "If you wish to search using additional fields, please use the Advanced Search."

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# 精炼检索结果

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metal organic frameworks

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A kinetic study of metal-organic frameworks as

vehicle in Iraq

Mohammed Sattar Jabbar, Rana Th. A. Alrubaye

Journal: AIP Conference Proceedings

AIP Conference Proceedings 2651, 070004 (2023)

DOI: <https://doi.org/10.1063/5.0108489>

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Thabet Abed Alrubaye

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# 精炼检索结果

The screenshot shows the AIP Publishing search results page for the query "metal organic frameworks". The page includes a search bar, navigation links, and a list of results. Annotations highlight key features for refining results:

- Search Bar:** The search bar contains the text "metal organic frameworks".
- Filter:** The filter is set to "All".
- Sort by:** The results are sorted by "Relevancy".
- Save search:** A button labeled "Save search" is highlighted.
- 对检索结果进行排序:** An annotation pointing to the "Sort by" dropdown menu, which shows options: "Relevancy", "Date - Newest First", and "Date - Oldest First".
- 保存检索结果:** A button labeled "保存检索结果" (Save search results) is highlighted.
- Follow your search:** A modal window titled "Follow your search" is open, showing a form to name the search (currently "metal organic frameworks") and a "SAVE SEARCH" button.
- My Alerts:** A dropdown menu is open, showing options: "My Alerts", "My Subscriptions", "My Profile", "Saved Searches", "My Tokens", "Enter Access Code", and "Sign Out".

The search results list includes the following article:

- JOURNAL ARTICLES**
- Layer-by-layer assembly of metal-organic framework thin films: Fabrication and advanced applications**
- Dong-Hui Chen, Hartmut Gliemann, Christof Wöll**
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Bo Wang, Katherine VanDenburgh

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Room-temperature synthesis of lead-free copper(I)-antimony(III)-based double perovskite nanocrystals

Shizhe Wang, Dan Han et al.

In the field of perovskite solar cells, explorations of new lead-free all-inorganic perovskite materials are of great interest to address the instability and toxicity issues of lead-based hybrid ...

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Silva M. Kronawitter, Sebastian A. Hallweger et al.

Coordination polymer (CP) glasses have recently emerged as a new glass state. Given the young state of the field, the discovery of concepts that guide the synthesis of CP glasses with targeted ...

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Daniel L. Bodine, Angus P. Wilkinson

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Volume 33, Issue 10  
October 2021

RESEARCH ARTICLE | OCTOBER 25 2021

## Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system

Special Collection: Flow and the Virus, Flow and the Virus

N. N. Peng (彭宁宁); K. W. Chow (周國榮); C. H. Liu (廖俊豪)

N. N. Peng (彭宁宁)  
Department of Mechanical Engineering,  
University of Hong Kong, Pokfulam, Hong Kong  
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### Connected Content

A companion article has been published: Simulations show how coronavirus aerosol spreads in confined space

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Aerosol transmission is now well-established as a major mode of transmission of SARS-CoV-2 virus. Factors influencing the transport of virus-laden particles include human respiratory events, locations of the infected person(s), and the ventilation system (ventilation mode, ventilation capacity, and vent schemes). "Breath," "cough," and "sneeze" are defined quantitatively by the fluid jet velocities and particle sizes. For natural ventilation, most particles exhaled by sneezing and coughing tend to deposit on surfaces quickly, but aerosol generated by breathing will remain suspended in the air longer. For forced ventilation, motions of particles under different ventilation capacities are compared. Larger particles otherwise deposited readily on solid surfaces may be slowed down by airflow. Air currents also accelerate the motions of smaller particles, facilitating the subsequent deposition of micrometer or sub-micrometer particles. Locations of the infected person(s) lead to different spreading scenarios due to the distinctive motions of the particles generated by the various respiratory events. Sneeze particles will likely contaminate the person in front of the infected passenger only. Cough particles will increase the risk of all the people around the injector. Breath particles tend to spread throughout the confined environment. An optimized vent scheme is introduced and can reduce particles suspended in the air by up to 80% as compared with commonly used schemes. The purification function of this vent model is robust to various positions of the infected passenger.

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#### IV. CONCLUSIONS

#### ACKNOWLEDGMENTS

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Conflict Of Interest

# 文章页面

Volume 33, Issue 10  
October 2021

RESEARCH ARTICLE | OCTOBER 25 2021

## Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system

Special Collection: Flow and the Virus, Flow and the Virus

N. N. Peng (彭宇宇), K. W. Chow (周國榮), C. H. Liu (廖俊豪)

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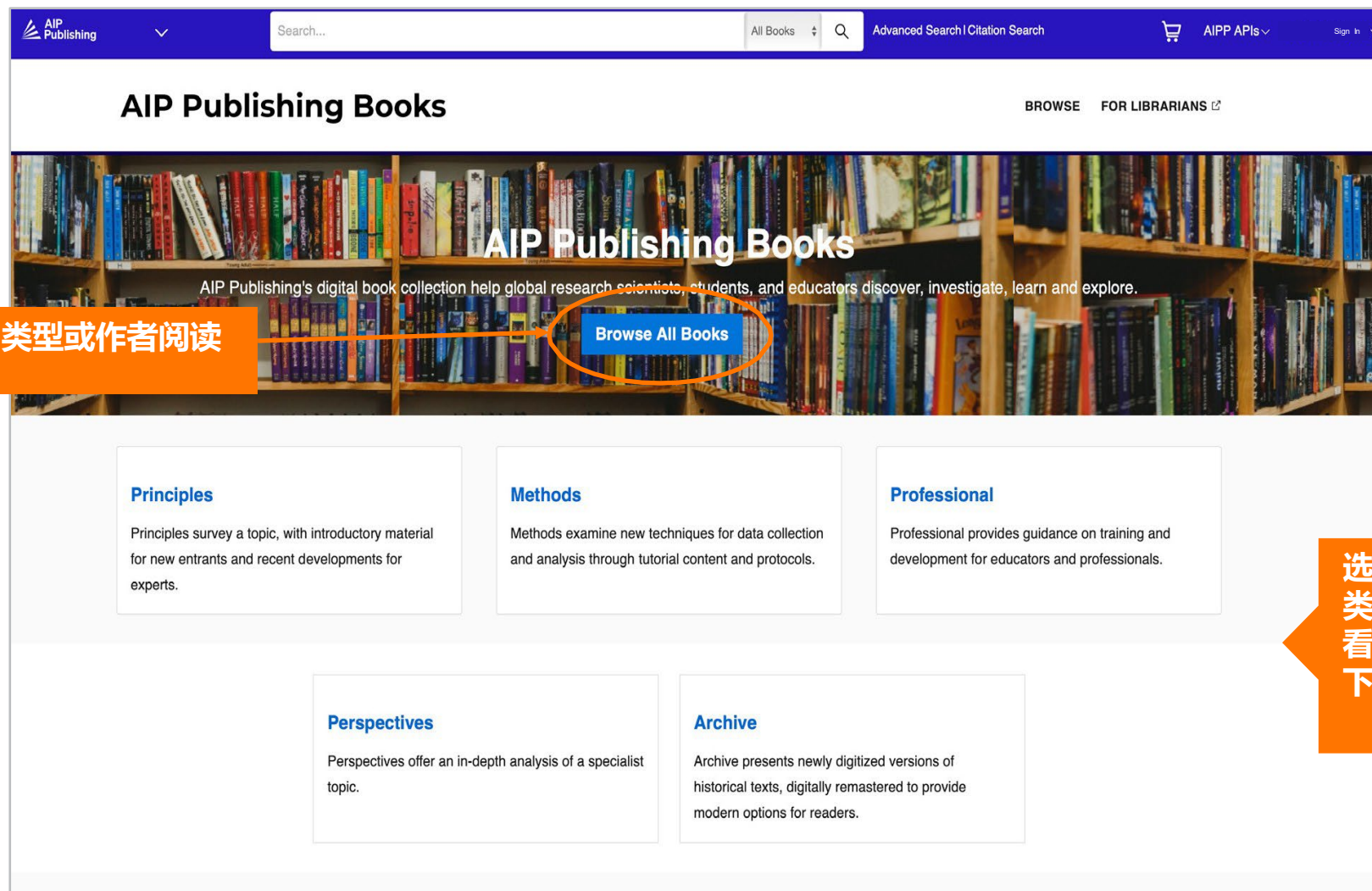
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Aerosol transmission is now well-established as a route in the spread of the SARS-CoV-2 virus. Factors influencing the transmission of the virus include the location of the infected person(s), the ventilation system (ventilation capacity, and ventilation scheme), and the motion of the particles. "Sneeze" and "cough" are defined quantitatively in terms of particle velocities and positions. Most particles exhaled by the infected person(s) tend to deposit on the surfaces of the cabin. Particles generated by breathing will stay in the air longer. For particles under different ventilation capacities are compared, the deposition of particles on solid surfaces may be slowed down by airflow. Airflow can also slow down the motions of smaller particles, facilitating the subsequent deposition of more particles. Locations of the infected person(s) lead to different spreading scenarios due to the distinctive motions of the particles generated by the various respiratory events. Sneeze particles will likely contaminate the person in front of the infected passenger only. Cough particles will increase the risk of all the people around the injector. Breath particles tend to spread throughout the confined environment. An optimized vent scheme is introduced and can reduce particles suspended in the air by up to 80% as compared with commonly used schemes. The purification function of this vent model is robust to various positions of the infected passenger.

### I. INTRODUCTION

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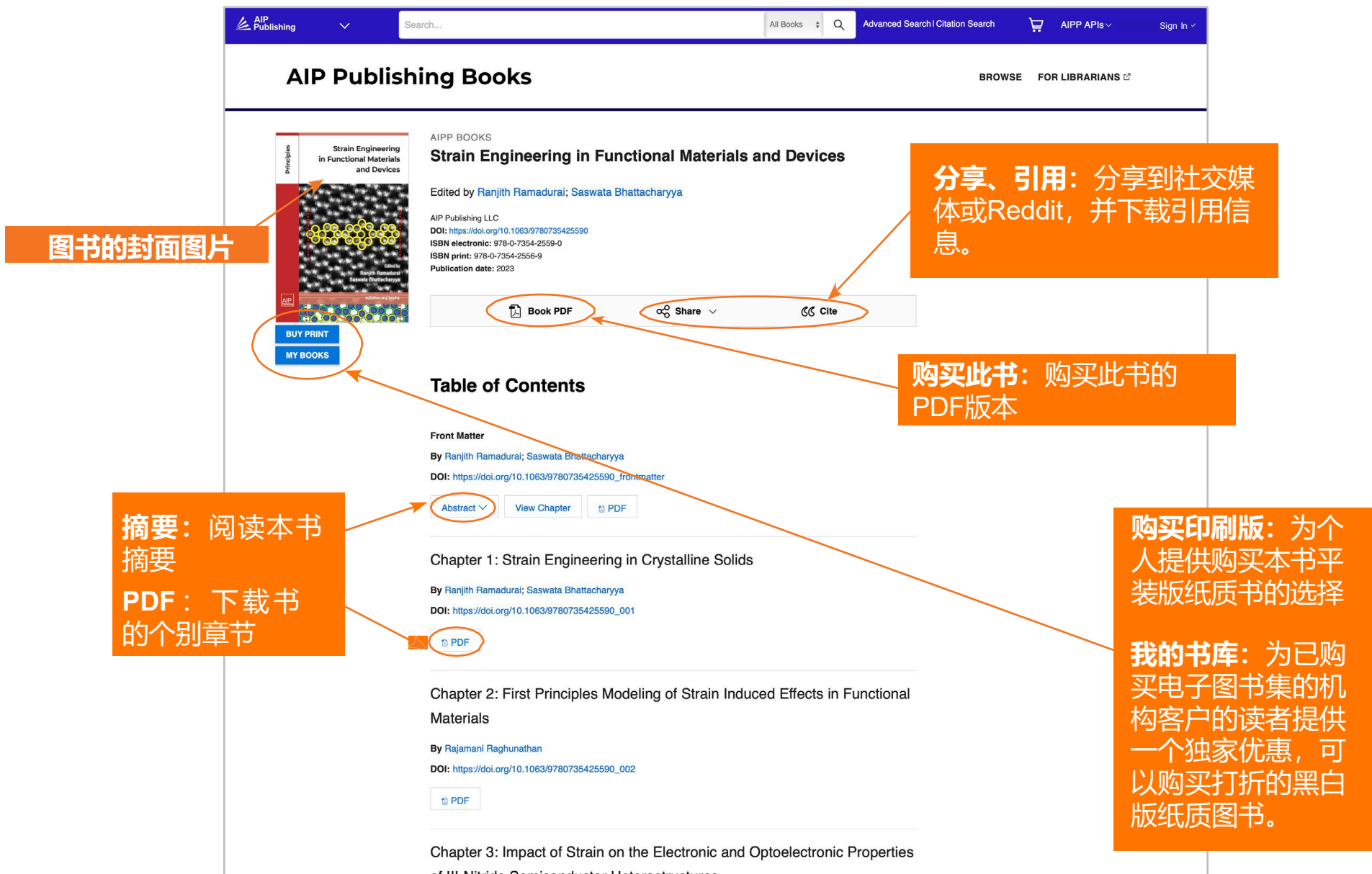


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**Chapter 1: Strain Engineering in Crystalline Solids**

By [Ranjith Ramadurai](#) ; [Saswata Bhattacharyya](#)

DOI: [https://doi.org/10.1063/9780735425590\\_001](https://doi.org/10.1063/9780735425590_001)

Published: 2023

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Ramadurai, R. and Bhattacharyya, S., "Strain engineering in crystalline solids," in *Strain Engineering in Functional Materials and Devices*, edited by R. Ramadurai and S. Bhattacharyya (AIP Publishing, Melville, New York, 2023), pp. 1-1-1-22.

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Strain is one of the important physical entities in engineering materials. It beholds the underlying intertwined relations between various functionalities of crystalline materials that offers smart functionalities like piezoelectricity, ferroelectricity, multiferroicity etc. Overall, this book is an attempt to discuss the operation of strain at different length scales and its influence on properties like electronic structure, structural stability, evolution of functional domains, etc. In addition procees induced strain and the respective microstructural evolution are also discussed. This chapter details the essential fundamentals that are required for the theoretical formalisms that are discussed in the later chapters of this book. Introductory sections on strain as a tensor and its interrelation with physical properties and its conformation to crystal symmetry through Neumann principle are discussed. In addition, discussions pertaining to strain as an equilibrium physical property is carried out in brief. A brief introduction to atomistic approach mainly through density functional theory is also presented with the needful basics of electrostatic potentials and illustrations. The last section of the chapter is dedicated to methods and measurements in which strain is involved in experimental studies. Most importantly, the commonly used processing of epitaxial strain and its experimental determination are discussed.

**1.1 Introduction**

This chapter introduces the concept of strain in crystalline solids. In subsequent chapters, we show how strain engineering or tailoring of strain fields via different methods (e.g., epitaxy, strain-capping layer, patterning, etc.) can be used to alter the physical properties of crystals.

A crystalline solid or a crystal refers to any solid material in which the constituent atoms or molecules are arranged in a definite, regular or periodic pattern. Macroscopically, crystals

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