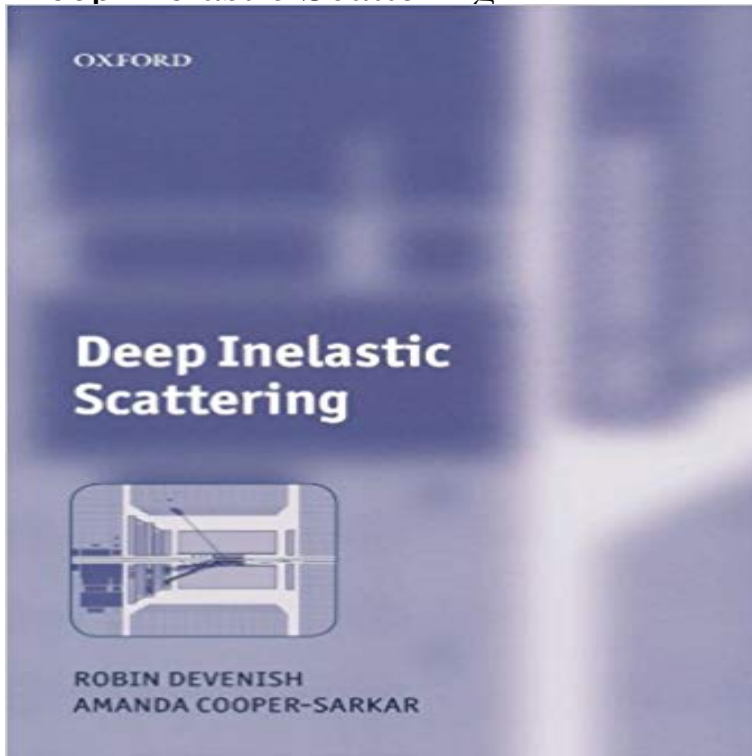


# Deep Inelastic Scattering



Deep Inelastic Scattering provides an up-to-date, self-contained account of deep inelastic scattering in high-energy physics, intended for graduate students and physicists new to the subject. It covers the classic results which led to the quark-parton model of hadrons and the establishment of quantum chromodynamics as the theory of the strong nuclear force, in addition to new vistas in the subject opened up by the electron-proton collider HERA. The extraction of parton momentum distribution functions, a key input for physics at hadron colliders such as the Tevatron at Fermi Lab and the Large Hadron Collider at CERN, is described in detail. The challenges of the HERA data at low  $x$  are described and possible explanations in terms of gluon dynamics and other models outlined. Other chapters cover: jet production at large momentum transfer and the determination of the strong coupling constant, electroweak interactions at very high momentum transfers, the extension of deep inelastic techniques to include hadronic probes, a summary of fully polarised inelastic scattering and the spin structure of the nucleon, and finally a brief account of methods in searching for signals beyond the standard model.

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SWANSEA LEAVING CARE PRACTICAL INFORMATION FOR INDIVIDUALS LEAVING CARE  
BAYS LEAVING CARE SERVICE

Opening Hours: Mon, Tues, Thurs 10.00am – 4pm Wed: 1pm – 4pm, and Fri 10.00am – 3.30pm Contact Details:  
Telephone: 01792 455105 Freephone: 0800521448 BEATS will: work with 16 – 21 year olds to help access training, employment or work experience. help young people access courses, or volunteering opportunities. give practical support with [...]

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Money Worries – Help with Benefits Have your benefits been stopped or reduced because of a sanction? You are eligible for Income Support if you are: Aged 16 & 17 and a parent of a child for whom you are responsible for; or A

single person fostering a child Aged 18+ [...]

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## INDEPENDENT LIVING SKILLS

Lots of the topics covered in this website are part of independent living skills and you may be surprised by how much is involved in looking after yourself. You don't have to be completely on your own and if you are finding things difficult you should always have someone to turn to for help. This does not [...]

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## USEFUL DOCUMENTS

There are a number of documents that you will need to have as you live more independently. BIRTH CERTIFICATE You need your birth certificate as proof of identity and you will need it to get other documents such as a passport. Social Services may have a copy of your birth certificate that they are [...]

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## HEALTH

It is your social worker or young personal advisor's job to make sure you are registered with a doctor (also called GP) and a dentist. It is important not to leave registering with a GP until you need medical help. Keep the contact details for your doctor and out of hours contact number safe. DENTIST [...]

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## HOUSING

This is perhaps one of the biggest things you have to sort out as you leave care and this is why there is lots of help and support available for you. The options available in your area may affect your choice of when you want to leave care. Unfortunately quite a large number of care [...]

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## EDUCATION

SCHOOL You should already have a designated person in school who is there to help and support you. This could be a teacher or another person in the school. They are responsible for writing your Personal Educational Plan (PEP) and making sure everything happens. Your educational plan should help you to do the best [...]

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## SOCIAL SERVICES AND PATHWAY PLAN

While you have been looked after you will have known some people whose job it is to help and support you. All young people in care have a social worker. It is a good idea to keep their details readily available just in case you need to contact them. You may also want to note the [...]

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## RIGHTS, ENTITLEMENTS AND ADVOCACY

A right is a something that you can expect to receive. You don't have to earn it or win it. The rights and entitlements listed below are things that the government has committed to provide for you as a care leaver. This might be because there is an Act of Parliament or because they have [...]

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scattering of a parton from the proton with the virtual **Deep inelastic scattering off scalar mesons in the  $1/N$  expansion** **Conformal Field Theories and Deep Inelastic Scattering** **Deep inelastic scattering: Experiments on the proton and the** A vigorous, successful experimental programme on deep-inelastic muon-nucleon scattering has been carried out with the CERN SPS muon beam that started in **Deep Inelastic Scattering in Lepton-Hadron Collisions** Interactive animations explaining deep inelastic scattering and the evidence for the existence of quarks. **DIS 2017 ()** The purpose of this text is to describe the process of deep inelastic scattering and physical implications of this model for deep inelastic scattering are derived. **An Introduction to Spin Dependent Deep Inelastic Scattering** Welcome to DIS2017. This is the 25th in a series of International Workshops covering an eclectic mixture of material related to Quantum Chromodynamics and **Deep inelastic scattering of leptons** **Deep inelastic scattering: Experiments on the proton and the observation of scaling.** Henry W. Kendall. Massachusetts Institute of Technology, Cambridge,